APPENDIX A

Notice of Preparation and Scoping Meeting

ESA

A-1 Notice of Preparation

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT AND NOTICE OF PUBLIC SCOPING MEETING

Date: August 9, 2017

To: State Clearinghouse, Responsible and Trustee Agencies, and Interested Individuals

Lead Agency: County of Los Angeles c/o Department of Public Works

900 S. Fremont Ave., 5th Floor, Alhambra, California 91803

Subject: Notice of Preparation of an Environmental Impact Report and Notice of Public Scoping Meeting Date and Location for the Rancho Los Amigos South Campus Project

The County of Los Angeles (County), as the lead agency under the California Environmental Quality Act (CEQA), is preparing an Environmental Impact Report (EIR) for the proposed Rancho Los Amigos South Campus Project (proposed Project) described below. The Department of Public Works (DPW), on behalf of the County, is soliciting input from responsible and trustee agencies, other agencies required to receive this notice, and the State Office of Planning and Research, and is also extending the outreach for early public consultation to members of the public, organizations, and any other interested parties on the scope and content of the information to be included and analyzed in the Project's EIR. Agencies should comment on the elements of the environmental information that are relevant to their statutory responsibilities in connection with the proposed Project. The EIR will serve as the environmental document for responsible and trustee agencies when considering any discretionary approvals related to the proposed Project. The Project description, location, and potential environmental effects of the proposed Project are described in this Notice of Preparation (NOP), which is prepared in accordance with the requirements of CEQA.

Comments to NOP: Due to time limits mandated by state law, public agencies, members of the public, or any other interested parties are requested to respond to this NOP in writing no later than 30 days after receipt of the NOP. The County will accept written comments regarding this NOP through the close of business on **Monday, September 11, 2017**. Please send all written comments, including emailed comments, to Mr. Luis Ramirez at the address below (page 3). Comments should include the name of the contact person.

1. Project Location: The Rancho Los Amigos Campus (Campus) is located on approximately 123 acres of County-owned land within the city of Downey. The Campus is crossed by Imperial Highway, creating two distinct campuses: a 49-acre campus north of Imperial Highway (North Campus), and a 74-acre campus south of Imperial Highway (South Campus). All activities associated with the proposed Project would be located entirely on the South Campus (also referred to as the Project Site). New County facilities would be constructed within a portion of the Project Site, referred to as the Development Area. The Project Site, including the Development Area, is located entirely on land owned by the County, and is on the western edge of the city of Downey. The Project Site is approximately 1 mile east of U.S. Interstate 710 (Long Beach Freeway), 1 mile north of U.S. Interstate 105 (Century Freeway), 3.3 miles west of U.S. Interstate 605 (San Gabriel River Freeway), and 3.3 miles northeast of U.S. Interstate 5 (Golden State Freeway) (see Figure 1). The Project Site is bound by Flores Street and Golondrinas Street to the north, Gardendale Street to the south, Laurel Avenue to the west, the Union Pacific Railroad to the southwest, and a strip that runs east along Consuelo Street to Paramount Boulevard. The proposed Development Area is on approximately 28 acres of the 74-acre Project Site. It is located in the north part of the Project Site and is bound by Flores Street and Golondrinas Street to the north, the parking lot adjacent to Dahlia Street to the east, Descanso Street and Consuelo Street to the south, and Laurel Avenue to the west (Figure 1).

2. Existing Conditions: At present, the Project Site is almost entirely unoccupied, with the exception of Los Angeles County Building No. (LACO No.) 1100, Office of Public Safety. There are approximately 113 buildings and structures on the Project Site, which are in various stages of abandonment and deterioration, and which have been boarded up since roughly 1991. The majority of the Project Site is not readily accessible to the public. The majority of the Project Site has previously been identified as a Historic District, and contains buildings that have been previously identified as being individually eligible for listing in the National Register of Historic Places. As part of the EIR being prepared,

the County will be assessing and updating the evaluation of the Historic District. The proposed 28-acre Development Area within the Project Site is currently developed with 51 vacant structures in various states of disrepair, some of which were previously deemed contributors to the Historic District.

Several buildings on the Project Site have been damaged by recent fires, where arson was suspected. On February 1, 2017, a fire damaged a portion of LACO No. 1204, Men's Psychiatric Ward, which is located in the Development Area. A subsequent fire on June 26, 2017, severely damaged LACO No. 1101, Harriman House, and destroyed LACO No. 1287, Oil and Storage Building, both of which are outside the proposed Development Area. The County is currently implementing safety measures, including the installation of an 8-foot-tall chain-link fence around the perimeter of the Project Site, increased public safety patrolling, and additional security lighting.

3. Description of Proposed Project: The County will prepare an EIR to analyze environmental impacts associated with implementation of the proposed Rancho Los Amigos South Campus Project. The County proposes to develop three new County administrative buildings in the Development Area on the Project Site, including the Internal Services Department (ISD) Headquarters, Probation Department Headquarters, and a Sheriff's Department Crime Laboratory. Staffing for each of these buildings would be filled by approximately 3,000 County-budgeted positions that are currently at other existing County facilities located within the region. Staffing numbers may be adjusted as the design is developed. The ISD Headquarters would be up to approximately 370,000 square feet; the Probation Department Headquarters would be up to approximately 220,000 square feet; and the Sheriff's Crime Laboratory would be up to approximately 60,000 square feet. The ISD and Probation Headquarters buildings may be co-located in one building, which would have an approximate height of six stories. The Sheriff's Crime Laboratory building would have an approximate height of two stories. The final configuration of these buildings may potentially change through the design process, however, the total square footage for the proposed Project would be up to approximately 650,000 square feet. The proposed Project would include development of a parking structure, with a height not to exceed approximately nine stories, and surface parking lots to be used for employee and visitor parking. The proposed Project would include all necessary utilities and points of connection, roadways, curbs and gutters, sidewalks, medians, site structures, hydrants, vaults, manholes, substations, street lights, street signage, landscaping, and irrigation for the proposed new development. The proposed Project would also include the widening and other street improvements along Erickson Avenue. Off-site improvements, such as those required for utilities, would also likely be necessary. All staging during construction would occur on the Project Site in a location to be determined.

Demolition: The proposed Project would require demolition of approximately 51 existing buildings and structures within the proposed 28-acre Development Area to allow for construction of new facilities. Some of the structures were previously identified as contributors to a Historic District. Analysis of the impacts and any proposed feasible mitigation to address the demolition will be included in the EIR.

Additional Demolition: In addition to the demolition of the approximately 51 existing buildings and structures within the proposed 28-acre Development Area, some or all of the approximately 62 remaining buildings and structures on the larger Project Site would be removed. Some of the structures remaining on the Project Site were previously identified as contributors to the Historic District. Analysis of the impacts and proposed feasible mitigation to address the demolition of the structures remaining within the Project Site will be included in the EIR.

The proposed Project would be designed to achieve the Leadership in Energy and Environmental Design (LEED) gold rating (or a successor equivalent standard established by the U.S. Green Building Council) or better. The proposed Project would be executed in multiple phases by various contractors using various contracting methods, including design-bid-build, design-build, job order contracting, and best value construction. Design-build allows for the procurement of effort in which both the design and the construction of a project are procured from a single entity. Construction could begin as early as the first quarter of 2019 and is anticipated to last for up to approximately 30 months.

4. Probable Environmental Effects: The County will be preparing a comprehensive EIR that evaluates all potential environmental impact areas. The County is beginning work directly on the EIR process and will focus on potentially significant effects of the proposed Project in the EIR, while indicating the reasons that other effects will not be potentially significant. An initial study is not required to determine that an EIR will be prepared, and as such, an initial study was not prepared for the proposed Project. The EIR will discuss potential environmental impacts of the proposed Project, including potential pre-construction, construction, and operation impacts. The EIR will evaluate all environmental topics required by CEQA, including aesthetics, agricultural and forestry resources, air quality, biological resources, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use, mineral resources, noise, population and housing, public services, recreation, tribal cultural resources, transportation and traffic, and utilities and service systems. The County

has identified specifically 12 primary environmental areas where impacts are most likely to occur. These impacts, which will be analyzed in detail in the EIR, include: aesthetics**,** air quality, biological resources, cultural resources, energy, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use, noise, transportation and traffic, and utilities and service systems.

The EIR will address the short- and long-term effects of the proposed Project on the environment. Feasible mitigation measures will be proposed for impacts that are determined to be potentially significant. A mitigation monitoring program will also be developed for any mitigation measures incorporated in the analysis.

This NOP is available for review and comment from August 9, 2017, to September 11, 2017. A digital copy of this NOP can be viewed at: ftp://dpwftp.co.la.ca.us/pub/pmd/Rancho Los Amigos South Campus EIR/. Hard copies are available for public review at the following locations:

Hollydale Library 12000 South Garfield Avenue South Gate, CA 90280	Lynwood Library 11320 Bullis Road Lynwood, CA 90262	Rancho Los Amigos North Campus Public Works Site Office 7402 Leeds Street, Trailer E, Downey, CA 90242
Downey City Library 11121 Brookshire Avenue Downey, CA 90241	Leland R. Weaver Library 4035 Tweedy Boulevard South Gate, CA 90280	Los Angeles County, Chief Executive Office 754 Kenneth Hahn Hall of Administration 500 W. Temple Street, Room 754 Los Angeles, CA 90012

The County is seeking input from both agencies and members of the public on the scope and content of the environmental information and analysis in the EIR. Due to the time limits mandated by state law, written comments must be sent via mail or email no later than 5:30 p.m. on September 11, 2017. Please send your comments at the earliest possible date. Any parties interested in receiving information in the future related to the proposed Project EIR may submit their names and mailing addresses to the same contact address.

Interested parties may submit their written comments by the deadline to:

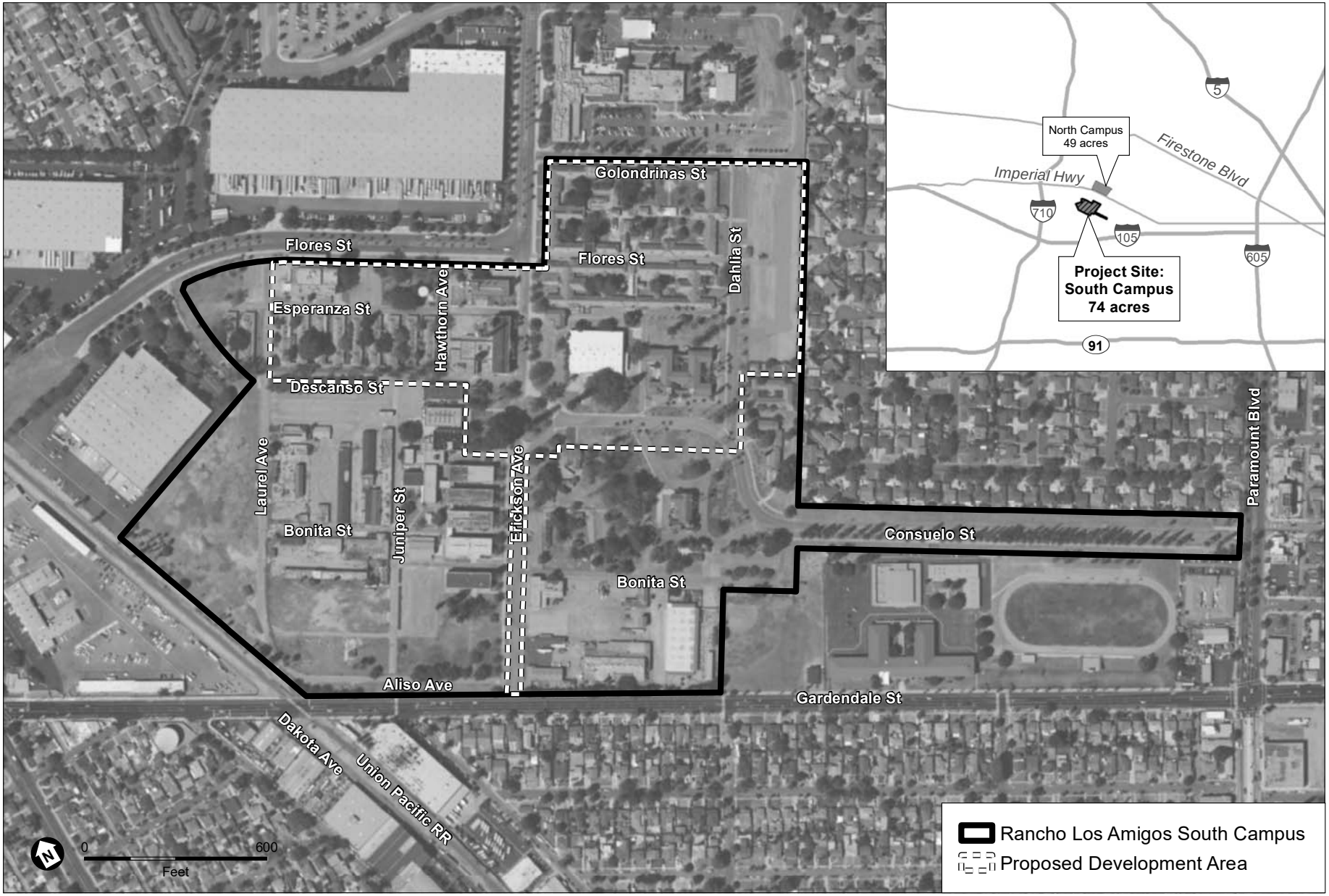
ATTN: Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Ave., 5th Floor
Alhambra, CA 91803
Email: luramire@dpw.lacounty.gov

Questions regarding this notice should be directed to Luis Ramirez at the address shown above, or he can be reached by telephone Monday through Thursday, between the hours of 7:30 a.m. and 5:30 p.m., at (626) 300-3230. All parties that are interested in receiving information in the future related to the proposed Project may submit their name and mailing address with that request to Luis Ramirez, Program Manager.

Public Scoping Meeting: A public scoping meeting will be held on August 30, 2017, from 5:30 p.m. to 7:30 p.m., to solicit input from any interested parties on the scope and content of the EIR in conformance with Section 21083.9 of the California Public Resources Code. While staff will summarize the issues raised at these meetings, anyone wishing to make formal scoping comments on the scope of issues or content of the Draft EIR must do so in writing. A later public notice and comment process will take place during the public circulation of a Draft EIR for the proposed Project. This meeting will provide a public forum for information and dialogue regarding the proposed Project. Anyone wishing to submit formal comments may do so in writing at the scoping meeting. However, you may also send a written response to this NOP to the address listed above by the deadline date of September 11, 2017, without attending the scoping meeting that provides an additional opportunity to discuss the EIR to be prepared for the proposed Project. The public scoping meeting will be held at the location identified below.

Location: Barbara J. Riley Community and Senior Center
Downey Room
7810 Quill Drive
Downey, CA 90242

“Si desea obtener mas información sobre el proyecto, o necesita que la notificación sea traducida en Español, por favor llame al (626) 300-3230.”



SOURCE: ESRI 2017; Los Angeles County Department of Public Works 2017

Rancho Los Amigos South Campus Project EIR

Figure 1
Project Location

ESA

CONDADO DE LOS ÁNGELES
DEPARTAMENTO DE OBRAS PÚBLICAS

AVISO DE PREPARACIÓN DE UN INFORME DE IMPACTO AMBIENTAL Y AVISO DE REUNIÓN PÚBLICA DE ALCANCE

Fecha:	9 de agosto de 2017
A:	Centro de Información del Estado, Agencias Responsables y Fiduciarias, y Personas Interesadas
Agencia Principal:	Condado de Los Ángeles c/o Departamento de Obras Públicas 900 S. Fremont Ave 5th Floor, Alhambra, California 91803
Asunto:	Notificación de Preparación de un Informe de Impacto Ambiental y Notificación de Fecha de Reunión de Alcance Público y Lugar para el Proyecto de Rancho Los Amigos South Campus

El Condado de Los Ángeles (Condado), como el organismo principal bajo la Ley de Calidad Ambiental de California (CEQA), está preparando un informe del impacto ambiental (EIR) para el proyecto propuesto de Rancho Los Amigos South Campus (Proyecto propuesto) descrito abajo. El Departamento de Obras Públicas (DPW), en nombre del Condado, está solicitando aportes de agencias responsables y fiduciarias, otras organizaciones a los que se les requiere recibir este aviso, y la Oficina Estatal de Planificación e Investigación, y también está extendiendo el alcance para consulta pública temprana a los miembros del público, las organizaciones y cualquier otra parte interesada sobre el alcance y el contenido de la información que se incluirá y analizará en el EIR del proyecto. Las agencias deberían comentar sobre los elementos de la información ambiental que son relevantes para sus responsabilidades estatutarias con respecto al Proyecto propuesto. El EIR servirá como documento ambiental para las organizaciones responsables y fiduciarias al considerar cualquier aprobación discrecional relacionada con el Proyecto propuesto. La descripción del Proyecto, la ubicación y los posibles efectos ambientales del Proyecto propuesto se describen en este Aviso de Preparación (NOP), que se prepara de acuerdo con los requisitos de CEQA.

Comentarios a NOP: Debido a los plazos establecidos por la ley estatal, se pide a las organizaciones públicas, a los miembros del público o a cualquier otra parte interesada que respondan a este NOP por escrito a más tardar 30 días después de recibir el NOP. El Condado aceptará comentarios por escrito sobre este NOP hasta el cierre de negocios el lunes, 11 de septiembre de 2017. Por favor envíe todos los comentarios por escrito, incluyendo comentarios por correo electrónico, al Sr. Luis Ramírez a la dirección abajo (página 3). Los comentarios deben incluir el nombre de la persona de contacto.

1. Ubicación del Proyecto: El Rancho Los Amigos Campus (Campus) está ubicado en aproximadamente 123 acres de propiedad del Condado dentro de la ciudad de Downey. El Campus es dividido por Imperial Highway, creando dos campus distintos: un campus de 49 acres al norte de Imperial Highway (Campus Norte) y un campus de 74 acres al sur de Imperial Highway (Campus Sur). Todas las actividades asociadas con el Proyecto propuesto estarían ubicadas enteramente en el Campus Sur (también conocido como el Sitio del Proyecto). Las nuevas instalaciones del Condado serían construidas dentro de una porción del Sitio del Proyecto, denominado Área de Desarrollo. El Sitio del Proyecto, incluyendo el Área de Desarrollo, está ubicado enteramente en tierra propiedad del Condado, y está en el borde occidental de la ciudad de Downey. El Sitio del Proyecto está aproximadamente a 1 milla al este de la Interestatal 710 de EE.UU. (Long Beach Freeway), 1 milla al norte de la Interestatal 105 de los EE.UU. (Century Freeway), 3.3 millas al oeste de la Interestatal 605 de EE.UU. (San Gabriel River Freeway) y 3.3 millas al noreste de la Interestatal 5 de EE.UU. (Golden State Freeway) (ver Figura 1). El Sitio del Proyecto está limitado por Flores Street y Golondrinas Street al norte, Gardendale Street al sur, Laurel Avenue al oeste, Union Pacific Railroad al suroeste y una franja que corre hacia el este por Consuelo Street hasta Paramount Boulevard. El Área de Desarrollo propuesta está en aproximadamente 28 acres del Sitio del Proyecto de 74 acres. Está ubicado en la parte norte del Sitio del Proyecto y está dividido por Flores Street y Golondrinas Street al norte, el estacionamiento junto a Dahlia Street al este, Descanso Street y Consuelo Street al sur y Laurel Avenue al oeste (Figura 1).

2. Condiciones Existentes: Actualmente, el Sitio del Proyecto está casi completamente desocupado, con la excepción del Edificio del Condado de Los Ángeles No. (LACO No.) 1100, Oficina de Seguridad Pública. Hay aproximadamente 113 edificios y estructuras en el Sitio del Proyecto, que se encuentran en diversas etapas de abandono y deterioro, y que han sido clausurados desde aproximadamente 1991. La mayoría del Sitio del Proyecto no es fácilmente accesible al público. La mayoría del Sitio del Proyecto ha sido previamente identificada como un Distrito Histórico, y contiene edificios que previamente han sido identificados como elegibles individualmente para ser listados en el Registro Nacional de Lugares Históricos. Como parte del EIR que se está preparando, el Condado evaluará y actualizará la evaluación del Distrito Histórico. El Área de Desarrollo de 28 acres propuesta en el Sitio del Proyecto se desarrolla actualmente con 51 estructuras vacías en varios estados de deterioro, algunos de los cuales han sido previamente identificados como contribuyentes al Distrito Histórico.

Varios edificios en el Sitio del Proyecto han sido dañados por incendios recientes, donde se sospechó de incendio premeditado. El 1 de

febrero de 2017, un incendio dañó una porción de LACO No. 1204, el Pabellón de Psiquiatría Masculina, que se encuentra en el Área de Desarrollo. Un incendio posterior el 26 de junio de 2017, dañó severamente LACO No. 1101, Harriman House, y destruyó LACO No. 1287, Edificio de Aceite y Almacenamiento, ambos se encuentran fuera del Área de Desarrollo propuesto. Actualmente, el Condado está implementando medidas de seguridad, incluyendo la instalación de un cerco malla metálica de 8 pies de altura en el perímetro del Campus Sur, aumento de la patrulla de seguridad pública e iluminación de seguridad adicional.

3. Descripción del Proyecto Propuesto: El Condado preparará un EIR para analizar los impactos ambientales asociados con la implementación del Proyecto propuesto en el Sitio del Proyecto. El Condado propone desarrollar tres nuevos edificios administrativos del Condado en el Área de Desarrollo en el Sitio del Proyecto, incluyendo la Sede del Departamento de Servicios Internos (ISD), la Sede del Departamento de Libertad Condicional y un Laboratorio Forense del Sheriff. La dotación de personal para cada uno de estos edificios se llenaría con aproximadamente 3,000 puestos presupuestados en el Condado que actualmente se encuentran en otras instalaciones existentes del Condado ubicadas dentro de la región. Los números de personal pueden ser ajustados a medida que se desarrolla el diseño. La Sede de ISD sería de aproximadamente 370,000 pies cuadrados; la Sede del Departamento de Libertad Condicional sería de aproximadamente 220,000 pies cuadrados; y el Laboratorio Forense del Sheriff sería de hasta aproximadamente 60,000 pies cuadrados. Los edificios de la Sede de ISD y la Oficina de Libertad Condicional pueden estar ubicados en un solo edificio, que tendría una altura aproximada de seis pisos. El Laboratorio Forense del Sheriff se alojaría en un edificio que tendría una altura aproximada de dos pisos. Las configuraciones finales de estos edificios pueden potencialmente cambiar durante el proceso de diseño, sin embargo, el total de pies cuadrados para el Proyecto propuesto sería de aproximadamente 650,000 pies cuadrados. El proyecto propuesto incluiría el desarrollo de una estructura de estacionamiento, con una altura que no exceda aproximadamente nueve pisos y estacionamientos de superficie para ser utilizados para el estacionamiento de empleados y visitantes. El Proyecto propuesto incluiría todos los servicios públicos y puntos de conexión necesarios, calzadas, aceras, medianas, estructuras de sitio, bocas de incendio, bóvedas, pozos de registro, subestaciones, iluminación de calles, letreros, jardinería e irrigación para el nuevo desarrollo propuesto. El Proyecto propuesto también incluiría la ampliación y otras mejoras de calles a lo largo de Erickson Avenue. También es probable que se necesiten mejoras fuera del sitio, como las requeridas para los servicios públicos. Todas las etapas durante la construcción ocurrirían en el Sitio del Proyecto en un lugar a ser determinado.

Demolición: El Proyecto propuesto requeriría la demolición de aproximadamente 51 edificios y estructuras existentes dentro del Área de Desarrollo propuesta de 28 acres para permitir la construcción de los nuevos edificios. Algunas de las estructuras han sido previamente identificadas como contribuyentes a un Distrito Histórico. El análisis de los impactos y cualquier mitigación viable propuesta para abordar la demolición se incluirá en el EIR.

Demolición Adicional: Además de la demolición de aproximadamente 51 edificios y estructuras existentes dentro del Área de Desarrollo propuesta de 28 acres, algunos o todos los aproximadamente 62 edificios y estructuras restantes en el mayor Sitio del Proyecto serían removidos. Algunas de las estructuras que permanecen en el Sitio del Proyecto han sido previamente identificadas como contribuyentes al Distrito Histórico. El análisis de los impactos y cualquier mitigación viable propuesta para abordar la demolición de las estructuras restantes dentro del Sitio del Proyecto se incluirá en el EIR.

El Proyecto propuesto estaría diseñado para lograr la calificación de oro de LEED (Leadership in Energy and Environmental Design) [Liderazgo en diseño energético y ambiental] (o una norma equivalente de reemplazo establecida por U.S. Green Building Council) o mejor. El Proyecto propuesto sería ejecutado en múltiples fases por varios contratistas usando varios métodos de contratación, incluyendo diseño-licitación-construcción, diseño-construcción, contratación de orden de trabajo y construcción de mejor valor. Diseño-construcción permite la adquisición de esfuerzo en el que tanto el diseño como la construcción de un proyecto se obtienen de una sola entidad. La construcción podría comenzar tan pronto como el primer trimestre de 2019 y se prevé que dure hasta aproximadamente 30 meses.

4. Efectos ambientales probables: El Condado estará preparando un EIR comprensivo que evalúa todas las áreas posibles de impacto ambiental. El Condado está comenzando a trabajar directamente en el proceso de EIR y se enfocará en los efectos potencialmente significativos del Proyecto propuesto en el EIR, al tiempo que indicará las razones por las cuales otros efectos no serán potencialmente significativos. No se requiere un estudio inicial para determinar que se preparará un EIR y, como tal, no se preparó un estudio inicial para el Proyecto propuesto. El EIR discutirá los posibles impactos ambientales del Proyecto propuesto, incluyendo posibles impactos previos a la construcción, construcción y operación. El EIR evaluará todos los temas ambientales requeridos por CEQA, incluyendo la estética, recursos agrícolas y forestales, calidad del aire, recursos biológicos, recursos culturales, energía, geología y suelos, emisiones de gases de efecto invernadero, peligros y materiales peligrosos, hidrología y calidad del agua, recursos minerales, ruido, población y vivienda, servicios públicos, recreación, recursos culturales tribales, transporte y tráfico, sistemas de servicios públicos y servicios. El Condado ha identificado específicamente 12 áreas ambientales primarias donde los impactos tienen más probabilidades de ocurrir. Estos impactos, que serán analizados en detalle en el EIR, incluyen: estética, calidad del aire, recursos biológicos, recursos culturales, energía, emisiones de gases de efecto invernadero, peligros y materiales peligrosos, hidrología y calidad del agua, uso del suelo, ruido, transporte y tráfico, y sistemas de servicios públicos y servicios.

El EIR abordará los efectos a corto y largo plazo del Proyecto propuesto sobre el medio ambiente. Se propondrán medidas de mitigación factibles para impactos que se determinen como potencialmente significativos. También se desarrollará un programa de monitoreo de mitigación para cualquier medida de mitigación incorporada en el análisis.

Este NOP está disponible para revisión y comentarios del 9 de agosto de 2017 al 11 de septiembre de 2017. Una copia digital de este NOP se puede ver en: ftp://dpwftp.co.la.ca.us/pub/pmd/Rancho Los Amigos South Campus EIR/. Copias impresas están disponibles para su revisión pública en los siguientes lugares:

Hollydale Library 12000 South Garfield Avenue South Gate, CA 90280	Lynwood Library 11320 Bullis Road Lynwood, CA 90262	Rancho Los Amigos North Campus Public Works Site Office 7402 Leeds Street, Trailer E, Downey, CA 90242
Downey City Library 11121 Brookshire Avenue Downey, CA 90241	Leland R. Weaver Library 4035 Tweedy Boulevard South Gate, CA 90280	Los Angeles County, Chief Executive Office 754 Kenneth Hahn Hall of Administration 500 West Temple Street, Room 754 Los Angeles, CA 90012

El Condado está buscando aportes tanto de agencias como de miembros del público sobre el alcance y contenido de la información y análisis ambiental en el EIR. Debido a los plazos establecidos por la ley estatal, los comentarios por escrito deben enviarse por correo o correo electrónico a más tardar a las 5:30 p.m. del 11 de septiembre de 2017. Por favor envíe sus comentarios a la mayor brevedad posible. Cualquier parte interesada en recibir información en el futuro relacionada con el Proyecto EIR propuesto podrá presentar su nombre y dirección postal a la misma dirección de contacto.

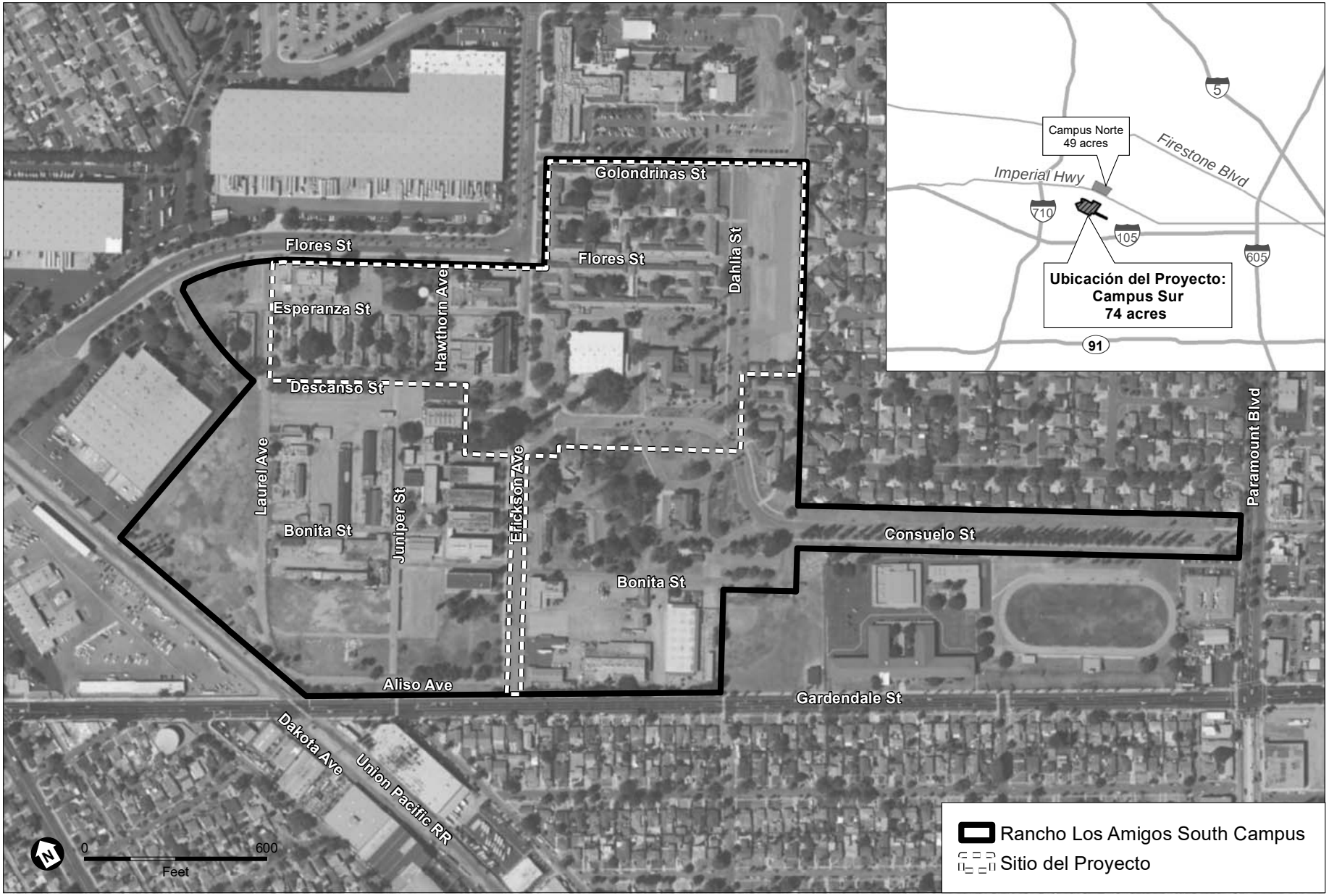
Las partes interesadas podrán presentar sus observaciones por escrito antes de la fecha límite a:

ATTN.: Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles, Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803
Correo electrónico: luramire@dpw.lacounty.gov

Las preguntas con respecto a esta notificación deben dirigirse a Luis Ramírez a la dirección indicada arriba, o puede comunicarse con él por teléfono de lunes a jueves, entre las 7:30 y las 5:30 p.m., al (626) 300-3230. Todas las partes interesadas en recibir información en el futuro relacionada con el Proyecto propuesto podrán enviar su nombre y dirección postal a Luis Ramírez, Gerente del Programa.

Reunión de Alcance Público: Una reunión de alcance público se llevará a cabo el 30 de agosto de 2017, a partir de las 5:30 p.m. hasta las 7:30 p.m., para solicitar la opinión de cualquier parte interesada sobre el alcance y contenido del EIR de conformidad con la Sección 21083.9 del Código de Recursos Públicos de California. Mientras que el personal resumirá las cuestiones planteadas en estas reuniones, cualquier persona que desee hacer comentarios formales sobre el alcance de las cuestiones o contenido del borrador del EIR debe hacerlo por escrito. Un proceso posterior de notificación y comentario público tendrá lugar durante la circulación pública de un Borrador del EIR para el Proyecto propuesto. Esta reunión proporcionará un foro público de información y diálogo sobre el Proyecto propuesto. Cualquier persona que desee presentar comentarios formales puede hacerlo por escrito en la reunión de alcance. Sin embargo, también puede enviar una respuesta por escrito a este NOP a la dirección antes mencionada antes de la fecha límite del 11 de septiembre de 2017, sin asistir a la reunión de alcance que brinda una oportunidad adicional para discutir el EIR que se preparará para el Proyecto propuesto. Le reunión de Alcance Público se realizará en la siguiente ubicación:

Ubicación: Barbara J. Riley Community and Senior Center
Sala Downey
7810 Quill Drive
Downey, CA 90242



SOURCE: ESRI 2017; Los Angeles County Department of Public Works 2017

Rancho Los Amigos South Campus Project EIR

Figura 1
Ubicación del Proyecto

ESA

A-2 Comments Received on the NOP

Addie Farrell

From: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Sent: Wednesday, August 9, 2017 1:37 PM
To: Addie Farrell
Cc: Waleed Jouzy - Consultant; Matthew Feldhaus - Consultant; Hannah Chen; Lauren Dods
Subject: NOP Related Call

Addie,
Received a call from Alicia Santana regarding the NOP. She had questions regarding the probation headquarters building. Her concern was that probationers were going to be coming to the campus to see their probation officers. I told her the building will only house administrative functions. I also instructed her to submit any questions/comments in writing so we can address them in the EIR. In addition, I invited her to attend the scoping meeting on the 30th.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

Addie Farrell

From: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Sent: Thursday, August 10, 2017 8:53 AM
To: Addie Farrell
Cc: Waleed Jouzy - Consultant; Matthew Feldhaus - Consultant; Hannah Chen; Lauren Dods
Subject: NOP Related Call

Follow Up Flag: Follow up
Flag Status: Flagged

Addie,
Received a call from Berta Yontomo regarding the NOP (Spanish). She had general questions about the project and wanted to know why the County had sent out the notice. I explained the CEQA process to her and gave her a rundown of the scope of work. She is excited for the project to move forward and wants to see the south campus developed. I instructed her to submit any questions/comments in writing so we can address them in the EIR. In addition, I invited her to attend the scoping meeting on the 30th.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

Addie Farrell

From: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Sent: Thursday, August 10, 2017 3:12 PM
To: Martinez, Severin@DOT
Cc: Addie Farrell; Waleed Jouzy - Consultant; Matthew Feldhaus - Consultant; Lauren Dods; Hannah Chen
Subject: RE: NOP for Rancho Los Amigos South Campus

Follow Up Flag: Follow up
Flag Status: Flagged

No problem.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: Martinez, Severin@DOT [mailto:Severin.Martinez@dot.ca.gov]
Sent: Thursday, August 10, 2017 3:01 PM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Cc: Addie Farrell (AFarrell@esassoc.com) <AFarrell@esassoc.com>; Waleed Jouzy - Consultant <WJOUZY@dpw.lacounty.gov>; Matthew Feldhaus - Consultant <MFELDHAUS@dpw.lacounty.gov>; Lauren Dods <Ldods@counsel.lacounty.gov>; Hannah Chen <hchen@ceo.lacounty.gov>
Subject: RE: NOP for Rancho Los Amigos South Campus

The link works, thank you!

- - - - - - - - - - - - - -
Severin Martinez

Transportation Planner
Local Development/Intergovernmental Review Branch
Caltrans District 7
(213)-897-0067

From: Luis Ramirez [mailto:LURAMIRE@dpw.lacounty.gov]
Sent: Thursday, August 10, 2017 2:59 PM
To: Martinez, Severin@DOT <Severin.Martinez@dot.ca.gov>
Cc: Addie Farrell (AFarrell@esassoc.com) <AFarrell@esassoc.com>; Waleed Jouzy - Consultant <WJOUZY@dpw.lacounty.gov>; Matthew Feldhaus - Consultant <MFELDHAUS@dpw.lacounty.gov>; Lauren Dods <Ldods@counsel.lacounty.gov>; Hannah Chen <hchen@ceo.lacounty.gov>
Subject: RE: NOP for Rancho Los Amigos South Campus

Severin,
Please try the link below:

ftp://dpwftp.co.la.ca.us/pub/pmd/Rancho Los Amigos South Campus EIR/

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: Martinez, Severin@DOT [mailto:Severin.Martinez@dot.ca.gov]
Sent: Thursday, August 10, 2017 2:56 PM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Subject: NOP for Rancho Los Amigos South Campus

Dear Mr. Ramirez,

My name is Severin Martinez and I am assisting in Caltrans' review process for the Rancho Los Amigos South Campus NOP. We received a mailed notice but no digital copy and I could be making some mistake but the url in the notice doesn't seem to work, nor am I able to find a copy easily available online. Might you have a functioning URL you could send my way?

Thank you,

Severin
- - - - - - - - - - - - - -
Severin Martinez

Transportation Planner
Local Development/Intergovernmental Review Branch
Caltrans District 7
(213)-897-0067

Addie Farrell

From: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Sent: Thursday, August 10, 2017 9:23 AM
To: Jim Fountain
Cc: Addie Farrell; Lauren Dods; Hannah Chen; Matthew Feldhaus - Consultant; Waleed Jouzy - Consultant
Subject: RE: Rancho Los Amigos NOP

Mr. Fountain,
Thank you for your comments. We will study them in the project's EIR.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: Jim Fountain [mailto:je.fountain@hotmail.com]
Sent: Thursday, August 10, 2017 8:53 AM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Subject: Rancho Los Amigos NOP

RE: Rancho Los Amigos South Campus Project

Good morning Mr. Ramirez,

Yesterday, I received the NOP. Please allow me to introduce myself:
-James Fountain
-Retired L.A. County employee (40 years)
-Previously worked at Rancho Los Amigos South Campus, 12838 Erickson Ave.
-Homeowner at 7814 Adoree next to the South Campus for 43 years
-Requested by former Downey City Mayor, Meredith Perkins (also a homeowner on Smallwood Ave. Next to the South Campus) to be an advocate for nearby concern residents.

My main concern about the EIR is whether or not Downey and South Gate (Holydale area) can implement widening Gardendale St from 2 to 4 lanes and removing the bicycle lanes and parralel parking to accommodate thousands of vehicles access the South Campus on Erickson Ave. From the South off of Gardendale.

A second concern is the major improvements needed for access by vehicle traffic off of Imperial Highway to Erickson Ave on the North of the South Campus.

My third and final concern is the sight lines from our mostly one story, singe family homes to the East of the South Campus. The NOP speaks of a 9 level garage and 6 story building.

Maybe the homeowners should file an injunction through the Cities of Downey and South Gate if there's no mitigation.

Please feel free to call me at:
cell: (562) 896-5461
home: (562) 869-0895

Respectfully,
Jim Fountain

Addie Farrell

From: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Sent: Monday, August 14, 2017 2:48 PM
To: Addie Farrell; Lauren Dods; Hannah Chen
Cc: Matthew Feldhaus - Consultant; Waleed Jouzy - Consultant
Subject: FW: Rancho Los Amigos Southern Campus - DEIR

FYI

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: Richard Schave [mailto:schavester@gmail.com]
Sent: Monday, August 14, 2017 2:47 PM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Cc: Kim Cooper <tours@esotouric.com>; George Redfox <redfox113@yahoo.com>; Adrian Scott Fine <afine@laconservancy.org>
Subject: Re: Rancho Los Amigos Southern Campus - DEIR

Luis:

Since wrote to you last Friday I have been in communication with Adrian Scott Fine (Director of Advocacy for the Los Angeles Conservancy) and George Redfox, a member of both Downey Conservancy & Downey Historical. They are both CCed.

Please know that both Adrian and George would like their respective organizations to be at the table regarding the campus and preservation.

Perhaps a site visit with all parties in September is a good idea?

Thanks,

Richard

On Mon, Aug 14, 2017 at 7:51 AM Luis Ramirez <LURAMIRE@dpw.lacounty.gov> wrote:

> Thank you. I will forward your information to our environmental consultant.
>
> Luis Ramirez, Architect
>
> Capital Projects Program Manager
>
> Los Angeles County Department of Public Works

Office: (562) 382-6801

Mobile: (626) 614-6545

From: Richard Schave [mailto:schavester@gmail.com]
Sent: Friday, August 11, 2017 10:37 AM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Cc: Kim Cooper <tours@esotouric.com>
Subject: Rancho Los Amigos Southern Campus - DEIR

Luis:

Jocelyn from LABOS Hahn's office sent me over.

My wife, Kim Cooper(CC'ed), and I are _very_ interested in being at the table for the discussion of the preservation of the historic buildings on the southern Rancho Los Amigos campus.

We are eager to not only provide public comment, but once the DEIR is out, meet with you.

We are quite active in the Los Angeles preservation community, and feel that this is a great time for a great site to get the preservation it needs as part of the policy over it.

Please let me know when the DEIR is expected out and if there are any documents supporting it which you might be able to share in advance.

BTW, your office building is one of the iconic sights of the SG Valley, our hats go off to the County for keeping the building in such great shape.

Thanks,

Richard Schave

http://secure-web.cisco.com/1KmUb5X4BK9cPl-C1fatTDqXZWPBb4EIHrqp3bIQDHRN6xBirFyx4reJGvZWegHCmDDQyQUxync4ho1VjUbJqMaMbFQ_kBCjCBr8IuJmLrOeHsbN6x_86YSiMmw5j7mkHF03C4glPhCn5Y_0eejSCYznwv_ubBo9lnKKIo9f3-c4gAv8GClzLcjZcg_yBY-qfKCcpbFuFjl0vE8AiqAOmo-hiSfficxWGqkmQTsGxxyeO6D1J0CiTu1Z86sPK4TzZ8CsO_LpGpLq5pF4iIbz9D7_sc0b_8n7QUw290aqrhCS92HsgTXr-QIbyLsIKyzaf8indNLTPKBkweICEykwWsQKJcdGiO2xLXsy81SHyybNpILjsapV3GBwlogUQlgNu3ve_4YqWShGFCnQUOFw3EQ/http%3A%2F%2Fwww.esotouric.com

http://secure-web.cisco.com/1fiuX4lLgFb7GJw2GubpnUx41xZK99A2-w1FxFd9kXMhS2TrqBoBhoDtPbQs5cu0UnL150H3KNsTIR5sQKsxXxjhEr0GS3taYpF9PlEZnGw5K6kZWG4g2t9P400zA1W1MimCnlZm_aCteQECOEcErrpbcEZJeGGW5S5QeuUyJqY14TB1eNqM1hqnflHv9zcq-FNPQLFzzdzL8F8ttVC6BictiG-W6awYjWiPNW1lz2pS2nEgOaquq72j3MJ2BWA_zf20QrmjTWlMo_fZUaiAqkuX5xKnd2vVTOd9t5UU8fX0o7ZbXZqyOqN9K6FnbkqloEAltTNegT6WVPesHNLdWwHSfTFmcCwpknl-VD57ZQmHuCo2rEg2dHzGkyV5EN0aaxU1kMvzImYTujd6G9cSa6g/http%3A%2F%2Fwww.lavatransforms.org

RECEIVED
AUG 28 2017
DEPT. PUBLIC WORKS
PROJECT MANAGEMENT DIVISION II

Ernesto Diaz
7918 Puritan St.
Downey, CA 90242
(626) 497-9730 erniesd@yahoo.com

8/17/17

Attn: Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Ave., 5th Floor
Alhambra, CA 91803

RE: Notice of Preparation of an Environmental Impact Report

Dear Mr. Luis Ramirez,
I have read the notice that was sent out with the details about the Rancho Los Amigos South Campus Project and I am interested in receiving ongoing information related to the proposed project.

One of my main concerns is what is planned for the corridor down Consuelo Street. My back yard borders that vacant land along side Consuelo Street and I am interested to know if anything is planned for that land. That strip of land is not maintained by anyone and is a constant source of rodents that come into our homes. Are there any plans for that Consuelo Street Corridor yet? If there are no plans, who can I contact to submit a petition for all the bordering neighbors to acquire that land?

Sincerely,

Ernesto Diaz
erniesd@yahoo.com
(626) 497-9730

ALEXANDER B. YOTSOV
10304 Clancey Ave - Downey, CA 90241
Tel: 562-904-0977 (home); 562-299-3070 (mobile)
E-mail: yotsov@yahoo.com

August 24, 2017

ATTN: Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Ave., 5th Floor
Alhambra, CA 91803

SUBJECT: RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT EIR

Dear Mr. Ramirez,

This letter is in response to the Notice of Preparation of an Environmental Impact Report ("EIR") and Notice of Public Scoping Meeting ("PSM") dated August 9, 2017. My mother owns a property at 7912 Puritan St in the city of Downey. Her property, along with several other parcels located along the southern part of Puritan Street, backs to Consuelo Street which is a County-owned private street. Consuelo Street along with Gardendale Street are the two main thoroughfares providing access from Paramount Blvd to the Rancho's South Campus. Therefore, it is our concern, along with the concern of several other neighbors, that excessive traffic noise and air pollution will have a negative impact on our properties once the South Campus project is completed. It is not clear to us what plans will be in place particularly for Consuelo Street. However we urge Los Angeles County, the City of Downey and any other organizations involved in this project to take a very close look at these issues and take it into serious consideration. Please forward any future communications on this matter to the address and telephone indicated in the letterhead.

Sincerely,

A. Yotsov

Alexander Yotsov

STATE OF CALIFORNIA
NATIVE AMERICAN HERITAGE COMMISSION
Environmental and Cultural Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710

Edmund G. Brown Jr., Governor





August 25, 2017

Luis Ramirez
Los Angeles County
900 South Fremont, 5th Floor
Alhambra, CA 91803

Sent via e-mail: luramir@dpw.lacounty.gov

RE: SCH# 2017081017; Rancho Los Amigos South Campus Project, City of Downey; Los Angeles County, California

Dear Mr. Ramirez:

The Native American Heritage Commission has received the Notice of Preparation (NOP) for Draft Environmental Impact Report for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code § 21000 et seq.), specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines Section 15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared. (Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd. (a)(1) (CEQA Guidelines § 15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a **separate category of cultural resources**, "tribal cultural resources" (Pub. Resources Code § 21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment (Pub. Resources Code § 21084.2). Please reference California Natural Resources Agency (2016) "Final Text for tribal cultural resources update to Appendix G: Environmental Checklist Form," http://resources.ca.gov/ceqa/docs/ab52/Clean-final-AB-52-App-G-text-Submitted.pdf. Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code § 21084.3 (a)). **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. § 800 et seq.) may also apply.

The NAHC recommends **lead agencies consult with all California Native American tribes** that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments. **Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws**.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a **lead agency** shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
    a. A brief description of the project.
    b. The lead agency contact information.
    c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code § 21080.3.1 (d)).
    d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code § 21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A **lead agency** shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code § 21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or environmental impact report. (Pub. Resources Code § 21080.3.1(b)).
    a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18). (Pub. Resources Code § 21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
    a. Alternatives to the project.
    b. Recommended mitigation measures.
    c. Significant effects. (Pub. Resources Code § 21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:
    a. Type of environmental review necessary.
    b. Significance of the tribal cultural resources.
    c. Significance of the project's impacts on tribal cultural resources.
    d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code § 21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code § 21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
    a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
    b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code § 21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:
    a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
    b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code § 21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code § 21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b). (Pub. Resources Code § 21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
    a. Avoidance and preservation of the resources in place, including, but not limited to:
        i. Planning and construction to avoid the resources and protect the cultural and natural context.
        ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
    b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
        i. Protecting the cultural character and integrity of the resource.
        ii. Protecting the traditional use of the resource.
        iii. Protecting the confidentiality of the resource.
    c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
    d. Protecting the resource. (Pub. Resource Code § 21084.3 (b)).
    e. Please note that a federally recognized California Native American tribe or a nonfederally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code § 815.3 (c)).
    f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code § 5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
    a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
    b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
    c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code § 21082.3 (d)).

    This process should be documented in the Cultural Resources section of your environmental document.

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires **local governments** to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code § 65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code § 65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code section 65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction. (Gov. Code § 65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have been already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.

b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
   a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
   b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
   a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
   b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
   c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

Please contact me if you need any additional information at gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst

cc: State Clearinghouse

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (562) 699-7411, FAX: (562) 699-5422
www.lacsd.org

GRACE ROBINSON HYDE
Chief Engineer and General Manager

August 28, 2017
Ref. Doc. No.: 4243608

Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles
Department of Public Works
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803

RECEIVED
SEP 06 2017
DEPT. PUBLIC WORKS
PROJECT MANAGEMENT DIVISION II

Dear Mr. Ramirez:

NOP Response for the Rancho Los Amigos South Campus Project

The Sanitation Districts of Los Angeles County (Districts) received a Notice of Preparation of a Draft Environmental Impact Report (NOP) for the subject project on August 9, 2017. The proposed project is located within the jurisdictional boundary of District No. 2. We offer the following comments regarding sewerage service:

1. The proposed project may require a Districts' permit for Industrial Wastewater Discharge. Project developers should contact the Districts' Industrial Waste Section at (562) 908-4288, extension 2900, to reach a determination on this matter. If this permit is necessary, project developers will be required to forward copies of final plans and supporting information for the proposed project to the Districts for review and approval before beginning project construction. For additional Industrial Wastewater Discharge Permit information, go to http://wwwlacsd.org/wastewater/industrial_waste/permit.asp.

2. The Districts maintain sewerage facilities within the project area that may be affected by the proposed project. Approval to construct improvements within a Districts' sewer easement and/or over or near a Districts' sewer is required before construction may begin. For a copy of the Districts' buildover procedures and requirements go to www.lacsd.org, Wastewater & Sewer Systems, click on Will Serve Program, and click on the Buildover Procedures and Requirements link. For more specific information regarding the buildover procedure, please contact Mr. Ed Stewart at (562) 908-4288, extension 2766.

3. The wastewater flow originating from the proposed project will discharge directly to the Districts' Joint Outfall B Unit 1C Replacement Trunk Sewer, located in a private right of way within the project site. The Districts' 66-inch diameter trunk sewer has a capacity of 65.8 million gallons per day (mgd) and conveyed a peak flow of 54.9 mgd when last measured in 2012. A 6-inch diameter or smaller direct connection to a Districts' trunk sewer requires a Trunk Sewer Connection Permit, issued by the Districts. An 8-inch diameter or larger direct connection to a Districts' trunk sewer requires submittal of Sewer Plans for review and approval by the Districts. For additional information, please contact the Districts' Engineering Counter at (562) 908-4288, extension 1205.

4. The wastewater generated by the proposed project will be treated at the Joint Water Pollution Control Plant located in the City of Carson, which has a capacity of 400 mgd and currently produces an average recycled water flow of 253.4 mgd.

Recycled Paper

5. The expected average wastewater flow from the proposed project, described in the notice as a 370,000-square-foot ISD Headquarters building, a 220,000-square-foot Probation Department Headquarters building, and a 60,000-square-foot Sheriffs Crime Laboratory, is 136.000 gallons per day. For a copy of the Districts' average wastewater generation factors, go to www.lacsd.org, Wastewater & Sewer Systems, click on Will Serve Program, and click on the Table 1, Loadings for Each Class of Land Use link.

6. The Districts are empowered by the California Health and Safety Code to charge a fee for the privilege of connecting (directly or indirectly) to the Districts' Sewerage System or for increasing the strength or quantity of wastewater discharged from connected facilities. This connection fee is a capital facilities fee that is imposed in an amount sufficient to construct an incremental expansion of the Sewerage System to accommodate the proposed project. Payment of a connection fee will be required before a permit to connect to the sewer is issued. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, Wastewater & Sewer Systems, click on Will Serve Program, and search for the appropriate link. In determining the impact to the Sewerage System and applicable connection fees, the Districts' Chief Engineer and General Manager will determine the user category (e.g. Condominium, Single Family home, etc.) that best represents the actual or anticipated use of the parcel or facilities on the parcel. For more specific information regarding the connection fee application procedure and fees, please contact the Connection Fee Counter at (562) 908-4288, extension 2727.

7. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CAA. All expansions of Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Districts' treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service, but is to advise you that the Districts intend to provide this service up to the levels that are legally permitted and to inform you of the currently existing capacity and any proposed expansion of the Districts' facilities.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717.

Very truly yours,

Adriana Raza
Customer Service Specialist
Facilities Planning Department

AR:ar
cc: L. Shadler
E. Stewart
M. Sullivan
M. Tatalovich

August 30, 2017

Mr. Luis Ramirez, Capital Project Manager
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue. 5th Floor
Alhambra, CA 91803

Subject: Letter sent to home owners within the impacted community area; Notice of Preparation of an Environmental Impact Report and Notice of Public Scoping Meeting Date and Location for the Rancho Los Amigos South Campus Project.

Dear Mr. Luis Ramirez:

We like to thank all involve in the idea of developing the subject area into a successful plan.

This are as currently is know is a total hazard in all senses, such as old and hazardous construction material used when the building were constructed, collection of dead vagrant animals, at time becomes vagrants encampment (in area of Gardendale Avenue and along the rail road tracks), vandalism, graffiti, and several arson episodes in addition in being a major eye sore.

Developing the area to house the proposed 3000.00 LA County Employees seem to be a good plan. As such it seems that it will be generating many trips in and out of proposed project, therefore we would like you to consider the relocation of a Fire Station which is located at approximately one block west from the proposed LA County proposed project. This Fire Station is along Gardendale and is an old and antiquated Fire Station structure. Large fire engines go in and out. The Fire Engines (trucks) go into the Fire Station from Monroe Avenue and discharge the Fire Station through Gardendale Avenue. Housing this old and antiquated Fire Station inside the Rancho Los Amigos Campus would greatly improve service to the community. A new improved Fire Station would take into consideration several impacts such as air quality, cultural resources, energy, green house gas emissions, hazards and hazardous materials, land use, noise pollution, population and housing public services, Transportation and Traffic circulation, a better housing for the Fireman and Fire women, which in turn a new relocated and improve Fire Station will provide the upmost Public Safety service in our community.

Therefore, we would like you to consider including into the study (EIR) in relocating the old and antiquated Fire Station into the Rancho Los Amigos South Campus area.

Should you have any questions, please do not hesitate in contacting us at (562) 881-2185 or e-mail at cdillon343@aol.com.

Best Regards,

Carlos Dillon
5720 Monroe Avenue
South Gate, CA 90280

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA USPS AND E-MAIL: September 7, 2017

luramire@dpw.lacounty.gov
Mr. Luis Ramirez, Capital Projects Program Manager
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803

Notice of Preparation of an Environmental Impact Report for the Rancho Los Amigos South Campus Project

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the Proposed Project that should be included in the Environmental Impact Report (EIR). Please send SCAQMD a copy of the EIR upon its completion. Note that copies of the EIR that are submitted to the State Clearinghouse are not forwarded to SCAQMD. Please forward a copy of the EIR directly to SCAQMD at the address shown in the letterhead. **In addition, please send with the EIR all appendices or technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files[1]. These include emission calculation spreadsheets and modeling input and output files (not PDF files). Without all files and supporting documentation, SCAQMD staff will be unable to complete our review of the air quality analyses in a timely manner. Any delays in providing all supporting documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from SCAQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on SCAQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). SCAQMD staff also recommends that the Lead Agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

SCAQMD has also developed both regional and localized significance thresholds. SCAQMD staff requests that the Lead Agency quantify criteria pollutant emissions and compare the results to

[1] Pursuant to the CEQA Guidelines Section 15174, the information contained in an EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and members of the public. Placement of highly technical and specialized analysis and data in the body of an EIR should be avoided through inclusion of supporting information and analyses as appendices to the main body of the EIR. Appendices to the EIR may be prepared in volumes separate from the basic EIR document, but shall be readily available for public examination and shall be submitted to all clearinghouses which assist in public review.

SCAQMD's CEQA regional pollutant emissions significance thresholds to determine air quality impacts. SCAQMD's CEQA regional pollutant emissions significance thresholds can be found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. In addition to analyzing regional air quality impacts, SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LSTs can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the Proposed Project, it is recommended that the Lead Agency perform a localized analysis by either using the LSTs developed by SCAQMD staff or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis.

In the event that the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Health Perspective*, which can be found at: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. Guidance[2] on strategies to reduce air pollution exposure near high-volume roadways can be found at: https://www.arb.ca.gov/ch/rd_technical_advisory_final.PDF.

Mitigation Measures

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize these impacts. Pursuant to CEQA Guidelines Section 15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are

[2] In April 2017, CARB published a technical advisory, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*, to supplement CARB's Air Quality and Land Use Handbook: A Community Health Perspective. This technical advisory is intended to provide information on strategies to reduce exposures to traffic emissions near high-volume roadways to assist land use planning and decision-making in order to protect public health and promote equity and environmental justice. The technical advisory is available at: https://www.arb.ca.gov/ch/landuse.htm.

available to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project, including:

- Chapter 11 of SCAQMD's CEQA Air Quality Handbook
- SCAQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions and Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities
- SCAQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf?sfvrsn=5
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

Alternatives

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires the consideration and discussion of alternatives to the project or its location which are capable of avoiding or substantially lessening any of the significant effects of the project. The discussion of a reasonable range of potentially feasible alternatives, including a "no project" alternative, is intended to foster informed decision-making and public participation. Pursuant to CEQA Guidelines Section 15126.6(d), the EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project.

Permits

In the event that the Proposed Project requires a permit from SCAQMD, SCAQMD should be identified as a responsible agency for the Proposed Project. For more information on permits, please visit SCAQMD webpage at: http://www.aqmd.gov/home/permits. Questions on permits can be directed to SCAQMD's Engineering and Permitting staff at (909) 396-3385.

Data Sources

SCAQMD rules and relevant air quality reports and data are available by calling SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available at SCAQMD's webpage at: http://www.aqmd.gov.

SCAQMD staff is available to work with the Lead Agency to ensure that project air quality impacts are accurately evaluated and any significant impacts are mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov or call me at (909) 396-3308.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
LAC170809-05
Control Number

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

RECEIVED
SEP 06 2017
DEPT. PUBLIC WORKS
PROJECT MANAGEMENT DIVISION II

August 31, 2017

Luis Ramirez, Program Manager
Department of Public Works
Project Management Division II
900 South Fremont Avenue
Alhambra, CA 91803

Dear Mr. Ramirez:

NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT, "RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT," WOULD REQUIRE DEMOLITION OF APPROXIMATELY 51 EXISTING BUILDINGS AND STRUCTURES WITHIN THE PROPOSED 28-ACRE DEVELOPMENT AREA, AND DEVELOP THREE NEW COUNTY ADMINISTRATIVE BUILDINGS, DOWNEY, FFER 201700091

The Notice of Preparation of an Environmental Impact Report has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department.

The following are their comments:

PLANNING DIVISION:

The subject property is entirely within the City of Downey which is not a part of the emergency response area of the Los Angeles County Fire Department (also known as the Consolidated Fire Protection District of Los Angeles County). Therefore, this project does not appear to have any impact on the emergency responsibilities of this department.

LAND DEVELOPMENT UNIT:

The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows, and fire hydrants.

Specific comments and requirements will be addressed as this project moves forward with the submittal of an Environmental Impact Report and the submittal of design or construction plans to the Fire Department.

Should any questions arise regarding the above comment please contact Juan Padilla of the Fire Prevention Division's Land Development Unit at (323) 890-4243 or Juan.Padilla@fire.lacounty.gov.

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

The statutory responsibilities of the County of Los Angeles Fire Department's Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed in the Draft Environmental Impact Report.

The County of Los Angeles Fire Department's Forestry Division has no further comments regarding this project.

HEALTH HAZARDOUS MATERIALS DIVISION:

The Health Hazardous Materials Division of the Los Angeles County Fire Department recommends that a Phase I Environmental Site Assessment be conducted at project site if not conducted already. Also, there is a contaminated property adjacent to the project site that was impacted by a leaking underground gasoline storage tank (UST). The soil and groundwater at this adjacent property has been impacted by gasoline. The Los Angeles Regional Water Quality Control Board is the lead environmental oversight agency overseeing the assessment and cleanup of the adjacent impacted property (Case #90240016). In addition, the Los Angeles County Department of Public Works, UST Program is also involved with UST permitting and closure issues at the adjacent impacted property.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

MICHAEL Y. TAKESHITA, ACTING CHIEF, FORESTRY DIVISION
PREVENTION SERVICES BUREAU

MYT:ac

RECEIVED
SEP 11 2017
DEPT. PUBLIC WORKS
PROJECT MANAGEMENT DIVISION II

September 6, 2017

Mr. Luis Ramirez, Capital Project Manager
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue. 5th Floor
Alhambra, CA 91803

Subject: Letter sent to home owners within the impacted community area; Notice of Preparation of an Environmental Impact Report and Notice of Public Scoping Meeting Date and Location for the Rancho Los Amigos South Campus Project.

Dear Mr. Luis Ramirez:

We like to thank all involved in the idea of developing the subject area into a successful plan.

This area, as currently known, is a total hazard in all senses, such as old and hazardous construction material were used when these buildings went up, collection of dead vagrant animals, at times it becomes vagrant's (homeless) encampment (in area of Gardendale Avenue and along the rail road tracks), vandalism, graffiti, and several arson episodes, and in addition, being a major eye sore.

Developing the area to house the proposed 3000.00 LA County Employees seems to be a good plan. As such, it seems that it will be generating many trips in and out of proposed project. More likely, a large percentage of trips will be using Erickson Avenue to Gardendale Avenue and then south on Garfield Avenue in order to get to the 105 and 710 Freeways' on-ramps access.

Our concern regarding the above described traffic circulation is the additional anticipated traffic on Monroe Avenue, which is at the fork with westbound Gardendale Avenue. Currently, most drivers wanting to get onto southbound Garfield Avenue resist making the left turn from Gardendale and Garfield Avenues' intersection due to the wait for the traffic signal phasing, and instead drivers on westbound Gardendale Avenue make a slight left at the fork towards Monroe Avenue and then by making a left turn from Monroe Avenue onto southbound Garfield Avenue in order to get to the 105 and 710 on-ramps. This described traffic circulation has added additional traffic on Monroe Avenue due to the recent and continue changes on Gardendale Avenue pavement's striping which currently restricts traffic to one lane in each direction. See attached Exhibit "A".

Fire Station # 57 is located approximately one block west from the proposed LA County project. This Fire Station is bounded by Gardendale Avenue in the north and by Monroe Avenue in the southeast and by an Alley way on the west. Garfield Avenue is approximately 100 feet west of the Alley Way. Large fire engines go in and out. The Fire Engines (trucks) go into the Fire Station from Monroe Avenue and discharge from Gardendale Avenue. See attached Exhibit "B".

The current traffic circulation conditions on Gardendale Avenue and specifically on Monroe Avenue, in the area near and around the Fire Station are impacting the residents of Monroe Avenue in the described area.

Additional traffic on Monroe Avenue due to left turners onto Garfield Avenue and fire Engines in and out of the Fire Station, along with the massive red curbing due to the latest traffic modification has contributed to difficult and complicated maneuvering for the Monroe Avenue residents when trying to come in and out of their driveways. Residents have had many close calls (accidents).

In fact drivers coming down on Monroe Avenue at times come with excessive speeds. We have had several hit and run, resulting with some major damages to parked vehicles, and at times these vehicles became total losses.

Speeders on Monroe Avenue usually end up knocking down trash cans on trash pickup days.

The increase in traffic volume on Monroe Avenue happens during pick morning and afternoon hours due to the left turners avoiding the traffic signal on Gardendale and Garfield Avenues.

Traffic accidents are very common at the intersection of Garfield and Monroe Avenue's. These accidents are due to left turns, or drivers just going through the intersection, which mostly, which we assume has to do with the lack of lateral sight distance of approaching vehicles from Garfield Avenue.

Also, at times, fire engines are left parked for hours on Monroe Avenue, in front of the station's driveway, making it very difficult for residents to go in or come out of their driveways.

Therefore, we proposed the following be included for considerations in the Environmental Impact Report (EIR):

1. Relocating this old and antiquated Fire Station inside the Rancho Los Amigos Campus (provided it is feasible; such as, securing right-of-way, securing cost and allowable time for design construction) would greatly improve service to the community. A new improved Fire Station would take into consideration several impacts such as air quality, cultural resources, energy, green house gas emissions, hazards and hazardous materials, land use, noise pollution, population and housing public services, Transportation and Traffic circulation, a better housing for the Firefighters, which in turn, a new relocated and improved Fire Station would provide the upmost Public Safety service in our community.
2. we would appreciate considerations be given to improving traffic circulation safety and parking conditions in the area of Monroe Avenue bounded by Garfield and Gardendale Avenues, which has been extremely affected in the area near and around the Fire Station # 57.
3. If consideration # 1 is not feasible, we would appreciate considerations be given to # 2.

Should you have any questions, please do not hesitate in contacting us at (562) 881-2185 or e-mail at cdillon343@aol.com.

Best Regards,

Carlos & Gilda Dillon
5720 Monroe Avenue
South Gate, CA 90280

Ron & Jennifer Smith
5716 Monroe Avenue
South Gate, CA 90280

Francisco & Maria Acevedo
5736 Monroe Avenue
South Gate, CA 90280

Salvador Jimenez
11500 Garfield Avenue
South Gate, CA 90280

Mark Chess
11304 Garfield Avenue
South Gate, CA 90280

Hector Rojas
11314 Garfield Avenue
South Gate, CA 90280

Jose & Gabriela Dueñas
5722 Monroe Avenue
South Gate, CA 90280

Fanny Peña
11809 Center Street
South Gate, CA 90280

María E. Dillon
5730 Monroe Avenue
South Gate, CA 90280

Roberto & María García
5724 Monroe Avenue
South Gate, CA 90280

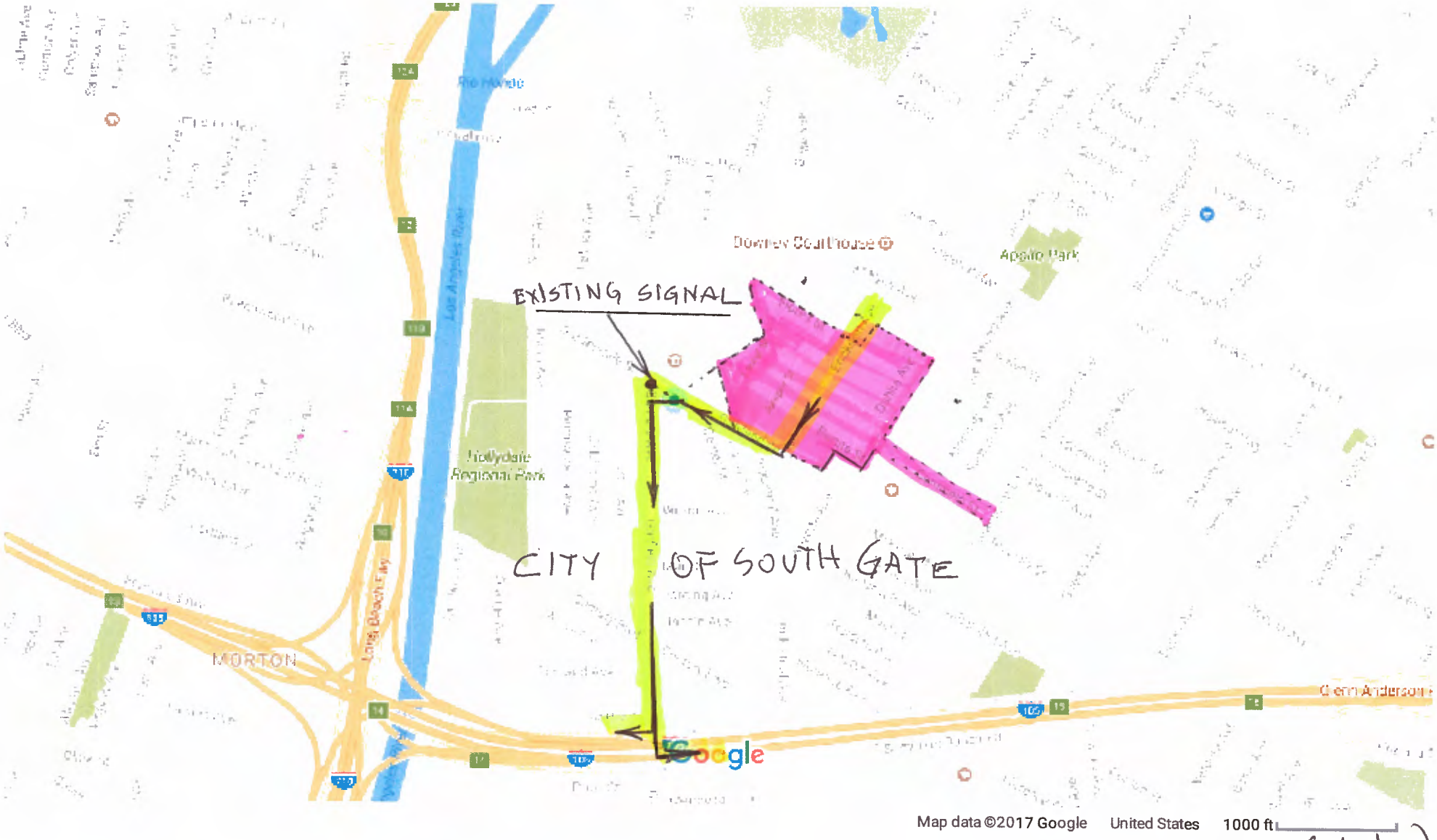
Victor & Carmen Garcia
11320 Garfield Avenue
South Gate, CA 9080

Ana Vargas / Juan Rios
5751 Taft Avenue
South Gate, CA 9080

Jose Martinez
5756 Taft Avenue
South Gate, CA 90280

CC:
Michael S. Flad, City Manager; City of South Gate
Arturo Cervantes, PE; Public Works Director; City of South Gate

Google Maps COMMENTS TO NOP: EIR PREPARATION; Exhibit "A"



RE: NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT, (8/9/17)

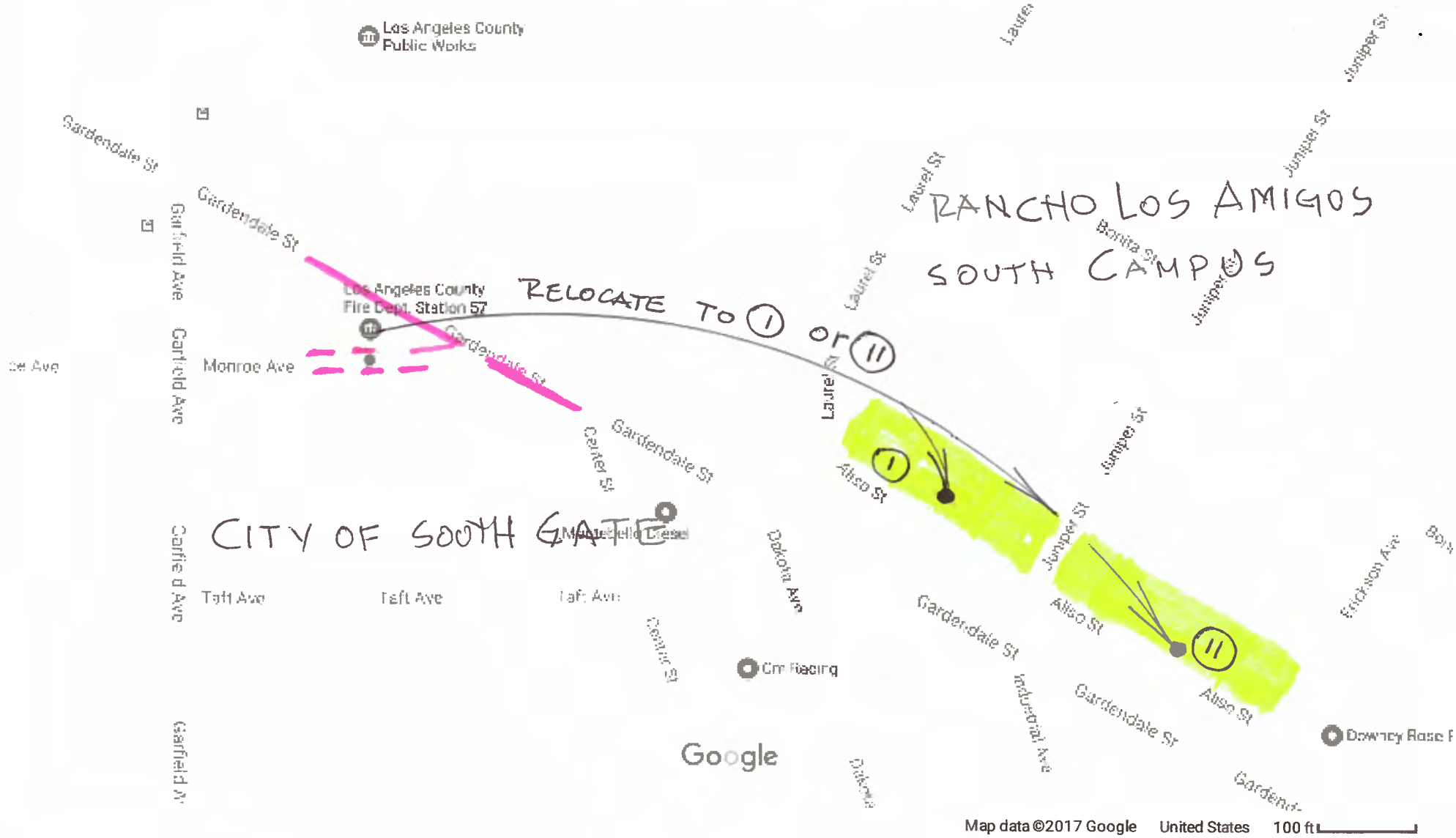
→ ANTICIPATED TRAFFIC CIRCULATION TO AND FROM 105 & 710 FRWYS.

RANCHO LOS AMIGOS SOUTH CAMPUS: PROPOSED DEVELOPMENT AREA.

N.T.S.

9/6/2017

COMMENTS TO NOP to EIR PREPARATION: EXHIBIT "B"



RE: NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT, (8/9/17)

— RED curbing

PROPOSED RELOCATION OF STATION 57.

N.T.S.

9/6/2017

From: Luis Ramirez
To: Addie Farrell
Cc: Hannah Chen; Lauren Dods; Matthew Feldhaus - Consultant; Waleed Jouzy - Consultant
Subject: FW: Ranch Los Amigos
Date: Wednesday, September 6, 2017 11:43:32 AM

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

-----Original Message-----
From: Bruce Kenmir [mailto:kenmir@att.net]
Sent: Wednesday, September 06, 2017 11:24 AM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Subject: Ranch Los Amigos

Mr. Ramirez,
Regarding the property on Rancho Los Amigos South Campus. It's good that something is finally going to be done with this property. The only thing l am concerned about is where the varmints are going to go when they get kicked out. They've got to go someplace! I'm talking about anything from skunks, gophers, squirrels, raccoons, rats, etc. Not to mention insects. My wife and I have lived close by for a long time and have seen all of these critters (include insects) often. I'm writing this in hopes that this problem will be given the proper attention it deserves.
Thank you and regards,
Bruce Kenmir

Bruce & Deanna Kenmir
6017 Wilson Ave.
South Gate, CA 90280

DEPARTMENT OF TRANSPORTATION
DISTRICT 7-OFFICE OF REGIONAL PLANNING
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-0067
FAX (213) 897-1337
www.dot.ca.gov

Making Conservation a California Way of Life.

September 8, 2017

Mr. Luis Ramirez
LA County Dept. Public Works
900 S. Freemont Ave, 5th Floor
Alhambra, CA 91803

RE: Rancho Los Amigos South Campus
Vic: LA-105 PM: 14.784
GTS# 07-LA-2017-01058
SCH# 2017081017

Dear Mr. Ramirez,

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The project proposes to develop three new County administrative buildings on the project site, including an Internal Services Department (ISD) Headquarters, Probation Department Headquarters, and a Sheriff's Department Crime Laboratory. The proposed project would include all necessary utilities and points of connection, roadways, curbs and gutters, sidewalks, medians, site structures, hydrants, vaults, manholes, substations, street lights, street signage, landscaping and irrigation for the proposed new development. The project would also include street modifications along Erickson Avenue.

Upon reviewing the Notice of Preparation (NOP), Caltrans has the following comments:

State-level policy goals related to sustainable transportation seek to reduce the number of trips made by driving, reduce greenhouse gas emissions, and encourage alternative modes of travel. Caltrans' Strategic Management Plan has set targets of tripling trips made by bicycling and doubling trips made by walking and public transit by 2020. The Strategic Plan also seeks to achieve a 15% reduction in statewide per capita vehicle miles traveled by 2020. Similar ambitious goals are embedded in Caltrans' 2040 Transportation Plan, and Southern California Association of Governments' Regional Transportation Plan. Statewide legislation such as AB 32 and SB 375, as well as Executive Orders S-3-05 and B-16-12, echo the need to pursue more sustainable development. Such climate change goals can only be achieved through support from local partners.

In an effort to reduce the possibility of conflicts that may occur from traffic generated by this project, the Office of Traffic Operations requests a Transportation Impact Study (TIS). In light of state legislation SB 743, at this stage the lead agency may choose to proceed with a vehicle miles traveled (VMT) transportation analysis instead of or in addition to a more traditional level of service (LOS) analysis. However, irrespective of methodology used, any transportation-related impacts should be addressed through appropriate multi-modal mitigation measures to reduce the number of vehicle trips generated by the project.

In the DEIR, Caltrans would like to see discussion of the role parking plays in shaping transportation habits. Research on parking suggests that abundant car parking enables and encourages driving. The amount of car parking supplied may undermine the project's ability to encourage more sustainable and active transportation. Similarly, Caltrans would like to see some discussion related to the inclusion of convenient and high quality on-site bicycle parking and how it may encourage bicycling.

Also, site design that omits or makes needs of active transportation modes secondary would be inconsistent with desired State goals of promoting sustainable transportation and reducing greenhouse gas emissions. Although the County has a limited role in shaping transportation habits, the design of the facilities (pedestrian-oriented vs automobile-oriented) and amenities it provides (greenspace, car parking, bicycle parking, etc) can influence how site users go to and from the site and this should be discussed in the DEIR. Since the project will include modifications to Erickson Avenue, some consideration should be given to including complete streets elements such as Class II or Class IV bikeways, enhanced sidewalks, or other features to promote active transportation.

In order for the project to better promote public transit, reduce vehicle miles traveled and reduce transportation-related impacts, we recommend the implementation of Transportation Demand Management (TDM) improvement measures. The simplest TDM measure that could be included deals directly with parking- such as reducing the amount of car parking supplied. Other measures can also help ensure the project is actively consistent with efforts to reduce vehicle trips, transportation-related GHG emissions while promoting public transit.

Any transportation of heavy construction equipment and/or materials requiring use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. Caltrans recommends that large size truck trips be limited to off-peak commute periods. Also, storm water run-off is a sensitive issue for Los Angeles and Ventura counties. We encourage including greening and other stormwater management elements such as permeable surfaces. Be mindful that the project needs to be designed to discharge clean run-off water.

If you have any questions or concerns regarding these comments, please contact project coordinator, Severin Martinez at (213)-897-0067 or severin.martinez@dot.ca.gov and refer to GTS# 07-LA-2017-01058.

Sincerely,

for

DIANNA WATSON
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

SCAG
INNOVATING FOR A BETTER TOMORROW

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September 11, 2017

Mr. Luis Ramirez, Capital Projects Program Manager
County of Los Angeles, Department of Public Works
900 South Fremont Avenue, 5th Floor
Alhambra, California 91803
Phone: (626) 300-3230
E-mail: luramire@dpw.lacounty.gov

RE: SCAG Comments on the Notice of Preparation of a Draft Environmental Impact Report for the Rancho Los Amigos South Campus Project [SCAG NO. IGR9358]

Dear Mr. Ramirez,

Thank you for submitting the Notice of Preparation of a Draft Environmental Impact Report for the Rancho Los Amigos South Campus Project ("proposed project") to the Southern California Association of Governments (SCAG) for review and comment. SCAG is the authorized regional agency for Inter-Governmental Review (IGR) of programs proposed for Federal financial assistance and direct Federal development activities, pursuant to Presidential Executive Order 12372. Additionally, SCAG reviews the Environmental Impact Reports of projects of regional significance for consistency with regional plans pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.

SCAG is also the designated Regional Transportation Planning Agency under state law, and is responsible for preparation of the Regional Transportation Plan (RTP) including the Sustainable Communities Strategy (SCS) pursuant to Senate Bill (SB) 375. As the clearinghouse for regionally significant projects per Executive Order 12372, SCAG reviews the consistency of local plans, projects, and programs with regional plans.[1] SCAG's feedback is intended to assist local jurisdictions and project proponents to implement projects that have the potential to contribute to attainment of Regional Transportation Plan/Sustainable Community Strategies (RTP/SCS) goals and align with RTP/SCS policies.

SCAG staff has reviewed the Notice of Preparation of a Draft Environmental Impact Report for the Rancho Los Amigos South Campus Project in Los Angeles County. The proposed project consists of the development of three administrative buildings featuring a total of 650,000 square feet (sf) of County office space on 74 acres.

When available, please send environmental documentation to *SCAG's office in Los Angeles or by email to au@scag.ca.gov* providing, at a minimum, the full public comment period for review. If you have any questions regarding the attached comments, please contact the Inter-Governmental Review (IGR) Program, attn.: Anita Au, Assistant Regional Planner, at (213) 236-1874 or au@scag.ca.gov. Thank you.

Sincerely,

Ping Chang
Ping Chang
Acting Manager, Compliance and Performance Monitoring

[1] Lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with the 2016 RTP/SCS for the purpose of determining consistency for CEQA. Any "consistency" finding by SCAG pursuant to the IGR process should not be construed as a determination of consistency with the 2016 RTP/SCS for CEQA.

COMMENTS ON THE NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT [SCAG NO. IGR9358]

CONSISTENCY WITH RTP/SCS

SCAG reviews environmental documents for regionally significant projects for their consistency with the adopted RTP/SCS. For the purpose of determining consistency with CEQA, lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with the RTP/SCS.

2016 RTP/SCS GOALS

The SCAG Regional Council adopted the 2016 RTP/SCS in April 2016. The 2016 RTP/SCS seeks to improve mobility, promote sustainability, facilitate economic development and preserve the quality of life for the residents in the region. The long-range visioning plan balances future mobility and housing needs with goals for the environment, the regional economy, social equity and environmental justice, and public health (see http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx). The goals included in the 2016 RTP/SCS may be pertinent to the proposed project. These goals are meant to provide guidance for considering the proposed project within the context of regional goals and policies. Among the relevant goals of the 2016 RTP/SCS are the following:

SCAG 2016 RTP/SCS GOALS	
RTP/SCS G1:	*Align the plan investments and policies with improving regional economic development and competitiveness*
RTP/SCS G2:	*Maximize mobility and accessibility for all people and goods in the region*
RTP/SCS G3:	*Ensure travel safety and reliability for all people and goods in the region*
RTP/SCS G4:	*Preserve and ensure a sustainable regional transportation system*
RTP/SCS G5:	*Maximize the productivity of our transportation system*
RTP/SCS G6:	*Protect the environment and health for our residents by improving air quality and encouraging active transportation (e.g., bicycling and walking)*
RTP/SCS G7:	*Actively encourage and create incentives for energy efficiency, where possible*
RTP/SCS G8:	*Encourage land use and growth patterns that facilitate transit and active transportation*
RTP/SCS G9:	*Maximize the security of the regional transportation system through improved system monitoring, rapid recovery planning, and coordination with other security agencies**
	**SCAG does not yet have an agreed-upon security performance measure.*

For ease of review, we encourage the use of a side-by-side comparison of SCAG goals with discussions of the consistency, non-consistency or non-applicability of the goals and supportive analysis in a table format. Suggested format is as follows:

SCAG 2016 RTP/SCS GOALS	
Goal	Analysis
RTP/SCS G1: *Align the plan investments and policies with improving regional economic development and competitiveness*	*Consistent: Statement as to why;* *Not-Consistent: Statement as to why;* *Or* *Not Applicable: Statement as to why;* *DEIR page number reference*
RTP/SCS G2: *Maximize mobility and accessibility for all people and goods in the region*	*Consistent: Statement as to why;* *Not-Consistent: Statement as to why;* *Or* *Not Applicable: Statement as to why;* *DEIR page number reference*
etc.	etc.

2016 RTP/SCS STRATEGIES

To achieve the goals of the 2016 RTP/SCS, a wide range of land use and transportation strategies are included in the 2016 RTP/SCS. Technical appendances of the 2016 RTP/SCS provide additional supporting information in detail. To view the 2016 RTP/SCS, please visit: http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx. The 2016 RTP/SCS builds upon the progress from the 2012 RTP/SCS and continues to focus on integrated, coordinated, and balanced planning for land use and transportation that the SCAG region strives toward a more sustainable region, while the region meets and exceeds in meeting all of applicable statutory requirements pertinent to the 2016 RTP/SCS. These strategies within the regional context are provided as guidance for lead agencies such as local jurisdictions when the proposed project is under consideration.

DEMOGRAPHICS AND GROWTH FORECASTS

Local input plays an important role in developing a reasonable growth forecast for the 2016 RTP/SCS. SCAG used a bottom-up local review and input process and engaged local jurisdictions in establishing the base geographic and socioeconomic projections including population, household and employment. At the time of this letter, the most recently adopted SCAG jurisdictional-level growth forecasts that were developed in accordance with the bottom-up local review and input process consist of the 2020, 2035, and 2040 population, households and employment forecasts. To view them, please visit http://www.scag.ca.gov/Documents/2016GrowthForecastByJurisdiction.pdf. The growth forecasts for the region and applicable jurisdictions are below.

	Adopted SCAG Region Wide Forecasts			Adopted County of Los Angeles Forecasts		
	Year 2020	**Year 2035**	**Year 2040**	**Year 2020**	**Year 2035**	**Year 2040**
Population	19,663,000	22,091,000	22,138,800	10,326,200	11,145,100	11,514,800
Households	6,458,000	7,325,000	7,412,300	3,493,700	3,809,300	3,946,600
Employment	8,414,000	9,441,000	9,871,500	4,662,500	5,062,100	5,225,800

	Adopted City of Alhambra Forecasts		
	Year 2020	**Year 2035**	**Year 2040**
Population	85,300	87,800	88,800
Households	30,300	31,400	31,900
Employment	30,500	32,300	33,500

MITIGATION MEASURES

SCAG staff recommends that you review the Final Program Environmental Impact Report (Final PEIR) for the 2016 RTP/SCS for guidance, as appropriate. SCAG's Regional Council certified the Final PEIR and adopted the associated Findings of Fact and a Statement of Overriding Considerations (FOF/SOC) and Mitigation Monitoring and Reporting Program (MMRP) on April 7, 2016 (please see: http://scagrtpscs.net/Pages/FINAL2016PEIR.aspx). The Final PEIR includes a list of project-level performance standards-based mitigation measures that may be considered for adoption and implementation by lead, responsible, or trustee agencies in the region, as applicable and feasible. Project-level mitigation measures are within responsibility, authority, and/or jurisdiction of project-implementing agency or other public agency serving as lead agency under CEQA in subsequent project- and site- specific design, CEQA review, and decision-making processes, to meet the performance standards for each of the CEQA resource categories.

CityofDowney

September 11, 2017

ATTN: Mr. Luis Ramirez
Capital Projects Program Manager
County of Lost Angeles Department of Public Works
Project Management Division II
900 South Fremont Ave., 5th Floor
Alhambra, CA. 91803

Via email: **luramire@dpw.lacounty.gov**

Re: Comments on Notice of Preparation of a Draft EIR for the Rancho Los Amigos South Campus Project

Dear Mr. Ramirez:

Thank you for the opportunity to provide input on the County of Los Angeles, Department of Public Works' preparation of an Environmental Impact Report (EIR) for the Rancho Los Amigos South Campus Project (hereinafter 'Project'). The County is proposing to develop three new administrative buildings and a new parking structure within the Rancho Los Amigos South Campus. The Project will also include demolishing various buildings throughout the South Campus. The Rancho Los Amigos Campus is located within the southwestern portion of the City of Downey.

The intent of this letter is to ensure that the County of Los Angeles considers all potential environmental impacts that the development of the Rancho Los Amigos Campus may have on the City of Downey, its residents, and the surrounding communities. In preparing the EIR, the following areas of environmental concern should be analyzed and mitigated if significant impacts are found:

Aesthetics

The Rancho Los Amigos South Campus has played a critical role in the development of the County of Los Angeles. Its history includes its use as a poor farm and a polio hospital. Improper architectural design can have a negative aesthetic impact to the surrounding area. Architectural and building massing guidelines should be

developed in a manner that reflects the aesthetic history of the site, as well as, that are consistent with the surrounding area. Particular concern should be paid to the design of the nine (9) story parking structure to ensure it is architecturally compatible with the other buildings in the development area. Proper design will reduce the appearance of this large structure.

In addition to the architectural design and massing of the structures, all proposed lighting should be analyzed to safeguard against light and glare impacts to the surrounding area. While proper lighting is needed for pedestrian safety and easy of maneuverability, lighting should be designed, positioned, and/or shielded so it does not illuminate surrounding properties or create excessive glare from the site.

Air Quality

The project site is located within the South Coast Air Basin, which is a nonattainment area under the National Ambient Air Quality Standard (NAAQS) and the California Ambient Air Quality Standard (CAAQS). Accordingly, AQMD standards alone should not be used when determining air quality impacts. Any increase in the degradation of air quality should be considered significant and mitigation measures should be identified to address environmental effects. Air quality impacts can be generated from construction and long-term use of the site. The EIR should identify all potential sources of air quality impacts, such as demolition of the buildings, construction of new buildings, and operation of the site.

Proper mitigation measures should be identified to ensure construction equipment and activities comply with the California Air Resources Board's and the South Coast Air Quality Management District's regulations. This should include mitigation measures that comply with South Coast Air Quality Management District's Rule 403 for fugitive dust control. Furthermore, according to the NOP, the County of Los Angeles is proposing to demolish approximately 113 buildings on site. These buildings pre-date 1970 and most likely contain asbestos. The EIR should identify mitigation measures for the demolition of these buildings to prevent air quality impacts created from the accidental release of asbestos.

Biological Resources

Rancho Los Amigos South Campus has become notorious for its population of feral cats, raccoons, possums, birds, and rats. These animals have made their home in fields, trees, and the abandoned buildings of the South Campus for decades. A complete and sudden eradication of these animals could be detrimental to the natural environment of the South Campus, particularly during breeding season. The EIR should include a biological survey of the area that identifies the species and number of animals living in the South Campus. Mitigation measures should be developed to minimize impacts to wildlife resources, including relocation of animals where feasible.

Similarly, the South Campus has an abundance of mature trees, including several large oak trees. The EIR should include a tree survey that lists the age of all mature trees and identifies all potentially historically significant trees. Mature landscape should be preserved in place, where feasible. In any case, all historically significant trees shall be preserved in place.

Cultural Resources

Originally established in 1888, Rancho Los Amigos was used to care for indigent patients from the Los Angeles County Hospital. During the ensuing century, Rancho Los Amigos went through several transitions, including serving as a mental health care facility, respiratory therapy center, and eventually becoming the premiere rehabilitation hospital that is in use today. Given the contribution that the project site has played in the development of Los Angeles County, it is without doubt that the site contains historical and/or cultural resources. A historical analysis should be performed to determined which buildings are contributing factors to the historical significance of the site. Mitigation measures should be developed to protect these historically significant buildings and determine how they can be reused. Likewise, landscaping can be a contributing factor to the historically significance of the site. The EIR should include a tree survey that lists the age of all mature trees and identifies all potentially historically significant trees. All historically significant trees shall be preserved in place.

An analysis of historical documents and aerial photographs should be performed to determine potential archeological resources that could be uncovered. Mitigation measures should be developed to address the preservation of archeological resources if found. Additionally, the County should conduct the required AB 52 tribal consultation, to determine any potential mitigation measures to address Native American resources.

A 2003 LA Times article (http://articles.latimes.com/2003/dec/07/local/me-then7) noted, "*When many patients died, they were buried in paupers' graves at the southwest corner of what is now Downey, between Garfield Avenue and the Union Pacific Railroad tracks.*" The EIR should investigate whether these graves have been moved or if they still exist on the site. In either case, mitigation measures should be included in case any grave sites are discovered.

Hazards and Hazardous Material

The EIR should study the potential impact on any proposed materials that may be transported onto and out of the South Campus once the County buildings are in full operation. Specifically, the Crime lab and Internal Services Department may utilize hazardous materials. These should be identified in the EIR and include mitigation measures for the transportation of the materials on and off the site, as well as on-site storage.

Hydrology and Water Quality

All storm-water runoff should comply with the Los Angeles County MS4 permit. This should include the entire South Campus and proposed parking areas. Being that infiltration is the preferred method within the City of Downey to address storm-water runoff, the EIR should include measures that are in-line with this direction. The final design of the retention and detention basins should be reviewed with the City to ensure they do not create an aesthetic impact.

Land Use/Planning

The City of Downey currently has a grant from Los Angeles Metropolitan Authority to create a specific plan for Transit-Oriented Development at the Rancho Los Amigos South Campus. This is due to the proposed West Santa Ana Branch Transit Corridor, which will provide a new light-rail station along the southern portion of the South Campus, along Gardendale St. With up to 3,000 employees at the site, there is a potential need for non-County support uses (coffee shops, restaurants, etc.), which will be subject to the City of Downey's zoning regulations. Mitigation measures should identify these non-County uses and set a method to ensure they obtain all required City approvals.

Pursuant to Government Code 65402(b), the County shall not "*...construct or authorize a public building or structure, in another county or within the corporate limits of a city, if such city or other county has adopted a general plan...*" The EIR should include mitigation measures to ensure the County of Los Angeles obtain a General Plan Consistency Finding from the City of Downey prior to the commencement of construction.

Noise

The South Campus is currently abandoned and has been vacant for over 20 years. As a result, the Rancho South Campus does not contribute to ambient noise levels. The EIR should include an analysis of all potential short-term (construction) and long-term (operation) noise impacts. Noise levels along Gardendale St., Garfield Avenue, Imperial Highway, Paramount Blvd., and Erickson Ave should be included in the study as these are direct pathways onto the site. Mitigation measures should be identified to reduce construction noise impacts on the surrounding residential areas.

Public Services

Recently, there has been confusion and miscommunication on which agency (City of Downey Police Department or Los Angeles County Sherriff's Department) is responsible for security for the Rancho South Campus. The EIR should clearly identify which agency will take the lead on patrolling, responding to alarms, and responding to 911 calls. Where the City of Downey Police Department will take the lead, the EIR should analyze impacts to City's police resources and identify any mitigation needed to eliminate all impacts.

The City of Downey Fire Department will be responsible to provide fire services to the Rancho South Campus. The EIR should analyze how the development of the Project will impact the City's Fire Department. This should include, but may not be limited to, emergency medical calls, and potential staffing and equipment limitations on responding to fire emergencies at the site.

Recreation

The City of Downey has concluded negotiations with the County of Los Angeles to construct a new sports center, which will feature three soccer fields on the South Campus (known as the Rancho Los Amigos South Campus Sports Center). These fields will ideally be occupied by soccer camps and the City of Downey Parks and Recreation Department. The EIR should include any potential impacts the development of the County buildings will have on sports center and should include mitigation measures on any influx of pedestrian traffic during work hours and during soccer events. It should also touch on any potential impacts for a spike in noise, traffic, and impacts on air quality during times when County buildings may be fully occupied at the same time as events are occurring at the sports center. Furthermore, mitigation measures should be identified to ensure County employees and visitors do not park in the sports center parking lots.

Transportation/Traffic

One of the most critical components of the EIR is the transportation/traffic analysis. The traffic study should analyze the following intersections:

- Garfield Ave. at Gardendale St.
- Garfield Ave at Imperial Hwy
- Paramount Blvd. at Gardendale St.
- Downey Ave. at Gardendale St.
- Brookshire Ave. at Gardendale St.
- Lakewood Blvd. at Gardendale St.
- Imperial Hwy. at Old River School Rd.
- Imperial Hwy. at Paramount Blvd.

The analysis should study the AM and PM peak hours on a typical weekday for the existing traffic conditions; the existing traffic conditions, with background growth projected out to opening year; and existing traffic, with background growth projected out to opening year and anticipated traffic generated by the project.

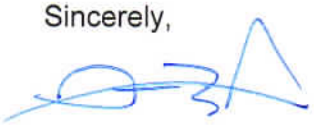
In addition to traffic conditions, the EIR should analyze parking for the proposed County buildings, potential parking impacts and parking spill over onto the local streets. Finally, the transportation analysis should study potential bicycle parking and on-site bicycle parking needs. The City of Downey has recently adopted a Bicycle Master Plan and added bicycle lanes to Gardendale Street, which could be impacted by the new development.

Utilities/Service Systems

As identified in the NOP, the proposed Project will include constructing approximately 650,000 s.f. of building space and adding 3,000 new employees the Rancho South Campus. The EIR should analyze all wet and dry utilities to ensure there is sufficient capacity to accommodate the new buildings. Specifically, pursuant to Water Code section 10910 et seq., a Water Supply Assessment (WSA) shall be performed to ensure there is sufficient water supply to service the site.

If you have any questions or would like to discuss these concerns further, please feel free to call me at (562) 904-7154 or email me at dblumenthal@downeyca.org.

Sincerely,



David Blumenthal
City Planner

DB:me

Addie Farrell

From: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Sent: Monday, September 18, 2017 7:34 AM
To: Addie Farrell
Cc: Lauren Dods; Hannah Chen; Waleed Jouzy - Consultant; Matthew Feldhaus - Consultant
Subject: FW: Rancho Los Amigos Project

FYI

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: John Carver [mailto:JCarver@paramountcity.com]
Sent: Friday, September 15, 2017 8:41 AM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>
Subject: Rancho Los Amigos Project

Luis – the City does not have any comments regarding the preparation for the EIR for the Rancho Los Amigos South Campus Project.

John Carver
Assistant Community Development Director
City of Paramount
562-220-2048
jcarver@paramountcity.com

LOS ANGELES CONSERVANCY

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December 21, 2017

Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles Dept. of Public Works
Project Management Division II
900 S. Fremont Avenue, 5th Floor
Alhambra, CA 91803
Email: luramire@dpw.lacounty.gov

RE: Rancho Los Amigos South Campus Project NOP

Dear Mr. Ramirez:

On behalf of the Los Angeles Conservancy, thank you for the opportunity to comment on the Notice of Preparation (NOP) for the Rancho Los Amigos South Campus Project and the proposed demolition of the entire California Register-listed Rancho Los Amigos Historic District. Given the rarity and historical significance of this resource, we are deeply disappointed in the County's current direction, especially as we have worked previously with the County throughout the past ten years to identify ways to repurpose this campus. The Conservancy and our many supporters are strongly concerned about the loss of this important community asset. Rancho Los Amigos has long been on the Conservancy's radar and we consider it highly significant to the heritage of all of Los Angeles County.

With wholesale demolition proposed, a significant adverse impact will occur; therefore the County will need to consider potentially feasible alternatives to demolition. As required by the California Environmental Quality Act (CEQA), the Draft Environmental Impact Report (EIR) shall fully consider and include a range (more than one) of preservation alternatives that could accomplish the goals of the project while retaining the continued eligibility of the historic district.

I. Historical Significance of Rancho Los Amigos

The South Campus of Rancho Los Amigos contains the Rancho Los Amigos Historic District (historic district), which was determined eligible for listing in the National Register of Historic Places by a consensus through the Section 106 process in 1995 and subsequently listed in the California Register of Historical Resources in 1998.[1]

The historic district was deemed significant under Criterion A of the National Register for its association with turn-of-the-century health care in Los Angeles County's indigent population, and for its later treatment of those in Los Angeles County with chronic illnesses, both mental and physical.

[1] County of Los Angeles Data Center, Draft EIR. April 2010. Section 3.4-10.

The historic district contains a mix of buildings that housed both staff and patients, and a range of supporting services that collectively chart Rancho Los Amigos' transformation from a Poor Farm and rehabilitative care facility into a hospital to house long-term invalid patients. Additionally, the site plan and placement of the various structures, often grouped by particular uses, reflects the operation of the facility and the relationships the individual structures and their uses had with one another.

Of the 103 buildings, structures and features identified in the district at the time of the determination, 78 were determined to be district contributors. In 1998, the 78 buildings, structures and a Moreton Bay fig tree were automatically listed in the California Register. Additionally, Rancho Los Amigos is one of the six historical resources recognized in Downey Vision 2025, the City of Downey's General Plan, as being a significant historical resource. The Design Element of the General Plan contains a policy dedicated to preserving the city's cultural resources, calling for specific efforts such as:

- Program 8.4.2.3: Promote the preservation and restoration of older structures, and
- Program 8.4.2.4: Encourage adaptive re-use of older structures

In recent years and as part of previous projects proposed by the County of Los Angeles, the campus has been repeatedly evaluated and determined to retain eligibility as a historic district. In April 2010, an updated historic resource evaluation of the historic district prepared for the County of Los Angeles Data Center project draft EIR concluded that, of the 78 original district contributors, 72 remained extant with 68 retaining sufficient integrity to continue contributing to the historic district.

II. Project Description, Purpose and Need

According to the NOP, the project proposes to develop three new County administrative buildings and a parking structure in a 28-acre Development Area within the overall 74-acre South Campus. Although the proposed new construction is limited to the 28-acre Development Area, the entire South Campus has been identified as the "Project Site."

The project description cites a total square footage of up to approximately 650,000 square feet of office space in new construction comprised of new facilities to house Internal Services Department (ISD) Headquarters, Probation Department Headquarters, and a Sherriff's Department Crime Laboratory. These spaces are to be filled by approximately 3,000 County-budgeted positions that are currently at other existing County facilities location within the region. A stated goal of the project is to achieve the Leadership in Energy and Environmental Design (LEED) gold rating or better.

To make room for the new construction, the project is proposing the demolition of all 51 existing buildings and structures within the 28-acre Development Area. The NOP also contemplates the demolition of some or all of the remaining structures of the South Campus, even though no further construction is being proposed and evaluated in the current environmental review.

Several questions have arisen as we attempt to understand the cumulative scope of the County's long range plans for the South Campus and the proposed, wholesale destruction of the California Register-listed historic district.

The Conservancy has previously worked closely with the County in our review of several past project proposals for the South Campus at Rancho Los Amigos, including the Data Center Project in 2010-13 and the Rancho Los Amigos South Campus Sports Center in 2016. Discussion of ways to retain contributing resources within the historic district factored into both conversations, so we're very surprised at the direction the County is currently taking by proposing the complete demolition of the historic district.



While we understand the County's goal of consolidating particular administrative offices to the Rancho Los Amigos property and have reviewed the program summary and formulas for establishing the desired square footage for each headquarters in the "Imperial Highway Relocation Feasibility Analysis," we question the need for the desired square footage and suggested footprints to house staff in large-scale structures. Given the County's responsibility, per CEQA, to reduce project impacts to historic resources when possible, we ask why a creative approach that could provide the desired square footage through the adaptive reuse of numerous small-scale structures is not being considered. Such a creative approach is not without precedent and it could both revitalize long vacant historic structures while advancing the project's goal of achieving a LEED gold rating.

III. Project cannot be subdivided into small sub-projects to eliminate potentially feasible alternatives from consideration

The proposed project impacts the historic resource which is the California Register historic district, which comprises the majority of the 74-acre South Campus. Why is the County instead identifying and primarily focusing on a sub-project area, in this case a 28-acre Development Area? The boundaries for this sub-area appear to be arbitrary and include a portion but not all of the historic district resources, in this case 51 structures. Why is the County not looking at the entire 74-acre South Campus as the project scope, and as an effort to consider alternatives and avoid impacts to historic resources? This is curious given other parts of the campus might be better positioned and capable of meeting the County's needs, where open space currently exists and could allow for larger building footprints of new construction while avoiding historic buildings.

If the project presented in this NOP is part of a larger, multi-phase development effort that the County is anticipating for the South Campus, why is the County attempting to circumvent the CEQA process through project splitting? This larger phased project is clearly contemplated in the Imperial Highway Relocation Feasibility Analysis (Feasibility Analysis), dated August 2015 and developed for the County by Gensler. Our understanding is this report came about through a motion in 2014 by Supervisor Knabe, instructing the County to "complete a 90-day Feasibility Analysis and Preliminary space plan for the relocation of County Departments located in the facilities at 9150 & 9300 E. Imperial Highway in Downey, CA."[2]

The consultant apparently did not fully factor in historic resources as the report does not contemplate or understand the mandate under CEQA as it states, "this report find[s] no significant obstacles to relocating Internal Services Headquarters and the Probation Headquarters to the Rancho Los Amigos South Campus in Downey." In part, this may be due to Gensler's recommendation to the County to adaptively reuse some of the historic buildings, a direction the County is apparently now disregarding. In August of 2016 the County authorized the Rancho Los Amigos South Campus Project to move forward and award a consultant agreement. Has an updated version of the August 2015 Feasibility Analysis, or a new study, been completed for the County?

While it appears that the Feasibility Analysis did not specifically evaluate whether historic district contributors might be adaptively reused for any of the new facilities being proposed in the NOP, the Gensler study notably does suggest that "several of the buildings may feasibly be converted to office use to reduce the amount of new construction needed" and that such a feasibility analysis "will require a more

[2] *Imperial Highway Relocation Feasibility Analysis*, Executive Report, C. Project Scope. August, 2015. Los Angeles County Department of County Works.

detailed programming effort to fully assess."[3] The County, as lead agency, is required to evaluate alternatives that could reduce project impacts to a less than significant level where possible and should prioritize the preparation of this analysis. The consultant further recommends "renovating approximately 240,247 GSF of the existing buildings to be used as adaptive reuse amenity spaces for the planned development."[4]

Under CEQA Guidelines Section 15378, a "project" is defined as "the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment…" An accurate and complete project description is essential to a legally sufficient EIR:

> A curtailed or distorted project description may stultify the objectives of the [CEQA] reporting process. Only through an accurate view of the project may affected outsiders and public decision-makers balance the proposal's benefit against its environmental cost, consider mitigation measures, assess the advantage of terminating the proposal (i.e., the 'no project' alternative) and weigh other alternatives in the balance.[5]

Accordingly, a public agency cannot segment a single project into smaller individual sub-projects in order to avoid reviewing the impacts of the project as a whole, or to eliminate potentially feasible alternatives from consideration.[6] The draft EIR must acknowledge whether future phases of development are indeed anticipated for the South Campus. If that is the case, and the County is not yet ready to proceed with the evaluation of project proposals for other portions of the South Campus, then the Specific Plan which the County and the City of Downey have jointly commenced should evaluate all of the 74-acre campus along with the anticipated project phases so impacts to the entire historic district can be considered from the outset.

IV. Draft EIR Must Evaluate a Range of Potentially Feasible Preservation Alternatives

A key policy under CEQA is the lead agency's duty to "take all action necessary to provide the people of this state with historic environmental qualities and preserve for future generations examples of major periods of California history."[7] To this end, CEQA requires public agencies to deny approval of a project with significant adverse effects when feasible alternatives or feasible mitigation measures can substantially lessen such effects."[8]

Courts often refer to the EIR as "the heart" of CEQA because it provides decision makers with an in-depth review of projects with potentially significant environmental impacts and analyzes a range of alternatives that reduce those impacts.[9] Based on objective analyses found in the EIR, agencies "shall mitigate or avoid the significant effects on the environment whenever it is feasible to do so."[10] The lead agency cannot

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[3] *Imperial Highway Relocation Feasibility Analysis*, Executive Report, C. Project Scope. August, 2015. Los Angeles County Department of County Works.

[4] *Imperial Highway Relocation Feasibility Analysis*, Executive Report, C. Project Scope. August, 2015. Los Angeles County Department of County Works.

[5] *County of Inyo v. City of Los Angeles* (1977) 71 Cal.App.3d 185, 192-193.

[6] *Orinda Assn. v. Board of Supervisors* (1986) 182 Cal.App.3d 1145, 1171.

[7] Public Resource Code, Sec. 21001 (b), (c).

[8] *Sierra Club v. Gilroy City Council* (1990) 222 Cal.App.3d 30, 41; also see PRC Secs. 21002, 21002.1.

[9] *County of Inyo v. Yorty* (1973) 32 Cal.App.3d 795; *Laurel Heights Improvement Association v. Regents of the University of California* (1993) 6 Cal.4th 1112, 1123.

[10] Public Resource Code, Sec. 21002.1.



merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures.[11]

In the past the County has committed itself to the review of preservation alternatives for previous projects proposed for the South Campus of Rancho Los Amigos, and the environmental review of this current proposed project should be no different. There is precedent for the successful adaptive reuse of buildings comprising historic campuses, such as the Presidio in San Francisco's Golden Gate Park.

The South Campus Conceptual Site Plan included in the Feasibility Analysis locates the proposed ISD Headquarters, Probation Department Headquarters, and parking structure serving both buildings in the southwest portion of the campus in what is referred to as Development Site C. Development Site C currently contains a number of non-contributors to the historic district and far fewer contributing structures than the Development Area proposed as the project site in the NOP. Additionally, the same feasibility analysis contains suggestions for creative adaptive reuse of the historic structures in the historic district, including: a visitor/historic center, a fitness center, a café/coffee house, a dining hall, a daycare facility, a farmers market, a conference center, and even a dry cleaners and a pharmacy.

About the Los Angeles Conservancy:
The Los Angeles the Conservancy has the largest membership of any local preservation organization in the U.S., with nearly 6,000 members throughout the Los Angeles area. Established in 1978, the Conservancy works to preserve and revitalize the significant architectural and cultural heritage of Los Angeles County through advocacy and education.

Thank you for the opportunity to comment on the NOP for the Rancho Los Amigos South Campus Project. We would like to meet with the County soon before the draft EIR is out to discuss further. Please do not hesitate to contact me at (213) 430-4203 or afine@laconservancy.org should you have any questions or concerns.

Sincerely,



Adrian Scott Fine
Director of Advocacy

Enclosure

cc: Los Angeles County Supervisor Janice Hahn, District 4
City of Downey
Downey Conservancy

[11] Public Resource Code, Sec. 21081; *Friends of Sierra Madre v. City of Sierra Madre* (2001) 25 Cal.4th 165, 185.

4. LSA Associates, Inc. December 2000. *Cultural Resource Assessment for AT&T Fixed Wireless Services Facility Number LA_106_a, County of Los Angeles, California*. Prepared for: AT&T Fixed Wireless Services.
5. LSA Associates, Inc. December 2000. *Review of AT&T Fixed Wireless Services Facility Number LA_106_a, County of Los Angeles, California* (Letter to the California Office of Historic Preservation, Sacramento, CA).
6. LSA Associates, Inc. August 2000. *Cultural Resources Assessment for Pacific Bell Wireless Facility LA 285-03, County of Los Angeles, California*. Prepared for: Pacific Bell Wireless.
7. Mason, Roger. May 2001. *LA-5960: Cultural Resources Records Search and Literature Review Report for an American Tower Corporation Telecommunications Facility: Number LA_009_n1, Redondo, in the City of South Gate, Los Angeles, California*. On file at South Central Coastal Information Center, California State University, Fullerton.

3.4.2.3 Historical Resources

The proposed project site is located within the boundaries of the Rancho Los Amigos Historic District (Historic District) (Figure 3.4.2.3-1, *Rancho Los Amigos Historic District*). This determination was the result of a records search for the proposed project area conducted at the SCCIC, which included relevant data from the HRI database,[26] historical research, and consultation with the Office of Historic Preservation (OHP), which revealed that two previously prepared historic survey reports documented the Historic District.[27,28]

In 1995, the Rancho Los Amigos Historic District was determined eligible for inclusion in the NRHP under Criterion A (an association with events that have made a significant contribution to the broad patterns of history) for "its association with the turn-of-the century health care of Los Angeles County's indigent population and for its later treatment of those in Los Angeles County with chronic illnesses, both mental and physical."[29] The period of significance for the Historic District was determined to be 1888 to 1945.[30] Of the 103 buildings, structures, and features identified in the district at the time of the determination, 78 were determined to be district contributors.[31] In 1998, the 78 buildings, structures, and a Moreton Bay fig tree were automatically listed in the CRHR.

Of the 78 contributors that were identified within the Historic District, 72 are still extant and 68 have been determined to retain sufficient integrity to continue to contribute to the Historic District. One of the contributors, Patient Ward / Building 211 (LACO No. 1199), has been previously approved for demolition under a related project, Link Road, as part of the Rancho Business Center Specific Plan 88-1 (SP 88-1). Seventeen (17) of the Historic District contributing features are located

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[26] California Historic Resources Inventory Database, Los Angeles County. 2009. On file at: Sapphos Environmental, Inc., Pasadena, CA.

[27] McAvoy, C. July 1995. *Survey of Earthquake Damaged Properties for Purposes of Section 106 Review, Determination of Eligibility*. Prepared by: Historic Resources Group. On file at the Office of Historic Preservation, Sacramento, CA.

[28] Post/Hazeltine Associates. October 2003. *Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California*. Prepared for: County of Los Angeles. The Historic District was assessed for historic significance twice, first in 1995 and later in 2004. The 1995 study determined the Historic District to be eligible for listing as a historic district in the NRHP, and as a result, the Historic District was listed in the CRHR when regulations implementing the CRHR were adopted in 1998. The subsequent 2004 study limited eligibility to six individual buildings and complexes; however, the 1995 finding was a formal, consensus-based determination of eligibility, and takes precedence over the 2004 survey.

[29] Historic Resources Group. 26 July 1995. Primary Record and District Record: Rancho Los Amigos Medical Center. Submitted to: Office of Historic Preservation, Department of Parks and Recreation, Sacramento, CA.

[30] Historic Resources Group. 26 July 1995. Primary Record and District Record: Rancho Los Amigos Medical Center. Submitted to: Office of Historic Preservation, Department of Parks and Recreation, Sacramento, CA.

[31] The 1995 survey identifies the Smoke Stack (with no LACO No.) as a separate individual resource. The 2004 and 2007 surveys lists the Power Plant and Smoke Stack as a single resource with one LACO number (1300). This difference results in a discrepancy of one in the total number of buildings within the Historic District.

on the proposed project site. Table 3.4.2.3-1, *Rancho Los Amigos Historic District Contributors*, lists the individual contributors to the Rancho Los Amigos Historic District identified in the 1995 Determination of Eligibility.

TABLE 3.4.2.3-1
RANCHO LOS AMIGOS HISTORIC DISTRICT CONTRIBUTORS

LACO No.	Name/Description	Year Constructed[1]	Relation to Proposed Project Site
N/A	Moreton Bay fig tree	Circa 1890 (planted)	Outside
954	Lumber Shed	1942	Outside
1100	Administration Building / Office of Public Safety	1926	Outside
1101	Superintendent's House / Harriman House	1915	Outside
1121	Staff Cottage	1921	Inside
1123	Staff Cottage	1924	Inside
1137	Dairyman's House	1907	Outside
1177	Superintendent's Garage	1917	Outside
1179	Dairyman's Garage	1926	Outside
1184	General Ward 30	1913	Outside
1185	General Ward 40	1913	Outside
1186	General Ward 50	1916	Outside
1187	General Ward 60	1926	Outside
1188	General Ward 70	1928	Outside
1189	Patient Ward 201	1923	Inside
1190	Patient Ward 202	1923	Inside
1191	Patient Ward 203	1923	Inside
1192	Patient Ward 204	1923	Inside
1193	Patient Ward 205	1926	Inside
1194	Patient Ward 206	1926	Inside
1195	Patient Ward 207	1926	Inside
1196	Patient Ward 208	1928	Inside
1197	Patient Ward 209	1928	Inside
1198	Patient Ward 210	1928	Inside
1199	Patient Ward 211	1928	Inside; previously approved for demolition as part of SP 88-1
1202/1203	Women's Psychiatric Wards	1919-1924	Outside
1204/1205	Men's Psychiatric Wards	1907-1924	Outside
1207	Work Preparation Center No. 2	1925	Outside
1238	Casa Consuelo	1930	Outside
1239	Toilet Building	1930	Outside
1240	Shelter	1930	Outside
1241	Linen Room	1932	Outside
1243	Open Shelter	1916	Outside
1244	Toilet Room	1916	Outside
1245	Linen Room / Snack Bar No. 3	1932	Outside
1247	Toilet Building	1925	Outside
1251	Open Shelter	1916	Outside
1254	Chapel / Computer Center	1908	Outside
1256	Toilet Building	1925	Outside
1259	Wheelchair Repair	1932	Outside

TABLE 3.4.2.3-1
RANCHO LOS AMIGOS HISTORIC DISTRICT CONTRIBUTORS, Continued

LACO No.	Name/Description	Year Constructed[1]	Relation to Proposed Project Site
1260	Bathhouse and Ward	1922	Outside
1261	Auditorium	1928	Outside
1262	Dining Room, Kitchen, Staff Room	1913-1926	Outside
1263	Commissary and Receiving Room	1913-1926	Outside
1264	Bonita Hall	1932	Outside
1265	Shelter	Circa 1933	Outside
1268	Storage	1932	Outside
1270	Garage	1932	Outside
1272	Shed	1930	Outside
1275	Workshop	1917	Outside
1276	Lock Shop	1913	Outside
1277	Garage	1925	Outside
1278	Garage and Storage	1924	Outside
1279	Garage	1925	Outside
1280	Garage	1928	Outside
1283	Trunk Storage	1923	Outside
1286	Garage / Storage	1920	Outside
1287	Oil and Storage	1909	Outside
1295	Kitchen and Dining Building	1927	Inside
1300	Power Plant (including Smoke Stack)[2]	1925	Inside
1301	Water Tower	1913	Inside
1302	Shop, Laundry, Ice Plant	1909–1911	Inside
1312	Aviary	1888	Outside
1333	Shed	1931	Outside
1334	Vivarium	1926	Outside
1335	Brooder House / Vivarium Annex	1929	Outside
1352	Train Station	1907	Outside
1356	Tool House	1926	Outside
1357	Landscape Office	1938	Outside
1379/4121	Garage	1926–1929	Outside

NOTE:

1. Construction dates to calculate the age of contributing resources are based on the results of the current survey and were calculated using historical aerials, maps, and personal narratives. The current year-built dates may contradict previously estimated construction years; however, the LACO numbers have not changed.

Rancho Los Amigos is one of the six historical resources recognized by Downey Vision 2025 as being significant. In addition to the general importance placed on Rancho Los Amigos, particular emphasis is placed on two of its resources: the Harriman Building (located on the north campus, 2,120 feet north of the proposed project site) and the Moreton Bay fig tree located 149 feet south of the proposed project site.

Historic Context

Begun in 1887/1888 as the new County Poor Farm, Rancho Los Amigos upon its inception was an agricultural facility that provided work, housing, and medical care for the indigent. The original purchase of 124.4 acres in the vicinity of the town of Downey, founded in 1873, was graded for roads, supplied with water from an artesian well, and improved with a Refectory Building, the

North and South Wards, an aviary, and an Office Building by 1889. During the following decade, barns and ancillary buildings with agricultural functions, a freight and passenger railroad depot, a combined bathhouse and laundry facility, and an additional ward were added to the campus. All these improvements, with the exception of the aviary that was moved in 1931, are no longer extant.

The County's goal was to make the Poor Farm as self sufficient as possible through the planting of crops and the raising of dairy cows, chickens and pigs. The inmates at the Poor Farm largely provided the labor for the agricultural efforts, with the assistance of several farm supervisors. Inmates also tended to the numerous trees, lawns and gardens, which decorated the farm landscape. The agricultural program at the Poor Farm was highly successful; throughout the first half of the twentieth century, it was a nationally recognized institution in the fields of cultivation and scientific breeding as a successful producer of prized crops and livestock.

In addition to operating a successful agricultural enterprise, the Poor Farm gradually expanded its role as a County medical facility. By the 1910s, an increasing number of inmates with chronic medical disorders were being admitted to the Poor Farm, prompting administrators to employ a staff of physicians and nurses to treat them. This surge in patients and subsequently employees created the impetus for expanded development at the Poor Farm. Many of the extant buildings were constructed during this surge in growth, which occurred primarily during the first quarter of the 20th century. By the end of the 1920s, the Poor Farm environment reflected its transition from a rehabilitative care facility for indigents into a hospital to house long-term invalid patients.

During the 1930s, funding for the Poor Farm was significantly reduced as a result of the Depression, slowing ongoing expansion efforts. Improvements during this period primarily consisted of maintenance to existing buildings; nonetheless, several significant buildings were erected, including the Harriman Building (not within the Historic District), which became the first modern medical facility on the property grounds. Despite the lack of funds, the Poor Farm managed to maintain all of its existing services and features, including its landscaping department, thanks to the supply of labor provided by the increasing number of admitted inmates. One change that required no funding occurred in 1932; the County changed the official name from County Poor Farm to "Rancho Los Amigos", which means the Friend's Ranch or Ranch of the Friends. This name change served as public notice of the evolving medical mission of the facility, as well as helping to shed the stigma associated with the title of "Poor Farm."

By late 1937, Rancho Los Amigos was treating close to 3,000 patients annually. The average patient age had been dramatically reduced, due to the 1933 enactment of the National Social Security Act, which gave individuals over the age of 65 a $35 monthly allowance. This allowed these individuals to leave institutional care and provide for themselves. Their departure freed space for chronically ill children to be admitted to the new medical center.[32] This shift in types of patients propelled Rancho Los Amigos into becoming a hospital facility. The majority of patients could no longer contribute to the production of the farm, which increased the cost of patient care and forced the gradual phasing out of farming operations. This was confirmed in an April 14, 1941, *Los Angeles Times* article, which stated:" For several years the institution has been more of a convalescent hospital than a county farm, therefore the persons cared for there are designated as patients rather than inmates."[33]

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[32] *Los Angeles Times*. "County Moving Sick Children." 4 October 1937. p. A18.

[33] *Los Angeles Times*. "Poor Farm's Cost Declines." 14 April 1941. p. 26.

The next important shift in the development of Rancho Los Amigos came in 1944, when its doctors began treating polio patients during the mass outbreak in the County. As the epidemic continued for several years, Rancho Los Amigos became a well-known polio rehabilitation center and eventually the world's leading post-polio respiratory center.[34] Many of the existing buildings underwent first floor improvements to accommodate polio patients. Most of the polio ward staff became polio treatment experts who taught their methods to other medical professionals all over the country.

With the waning of the polio epidemic by the 1950s, Rancho Los Amigos made its transition to rehabilitative care through the development of a cutting edge rehabilitative program. By the end of the decade Rancho Los Amigos was recognized as a quality medical facility and the farming facilities of the old Poor Farm were phased out.[35] Today, Rancho Los Amigos National Rehabilitation Center remains one of five hospitals in the Los Angeles County Department of Health Services and has become a leading center for rehabilitative care.

Resource Characterization

The proposed project area contains 17 buildings and structures that were previously identified as contributors to the Rancho Los Amigos Historic District and are historical resources as defined by CEQA.

Staff Cottages (LACO Nos. 1121 and 1123)

The single-story, Craftsman style, Staff Cottages (LACO Nos. 1121 and 1123) were built in 1921 and 1924, respectively, during the pivotal transition period in the 1920s when Rancho Los Amigos evolved from a poor farm and rehabilitative care facility for indigents into a hospital to house long-term invalid patients. The Staff Cottages are significant contributing features to the Historic District as they exhibit integrity as an important property type associated with the Historic District, which supported the Rancho Los Amigos function as a residential medical care facility.

Patient Wards (LACO Nos. 1189–1199)

The 11 single-story, Craftsman-influenced Patient Wards located within the proposed project site were completed between 1923 and 1928. The Patient Wards are a significant contributing feature to the Historic District, as they exhibit integrity as a critical property type associated with the Historic District and illustrate the transition of the poor farm from a rehabilitative care facility for indigents into a hospital to house long-term invalid patients. The patient wards collectively retain a substantial level of integrity.

Kitchen and Dining Building (LACO No. 1295)

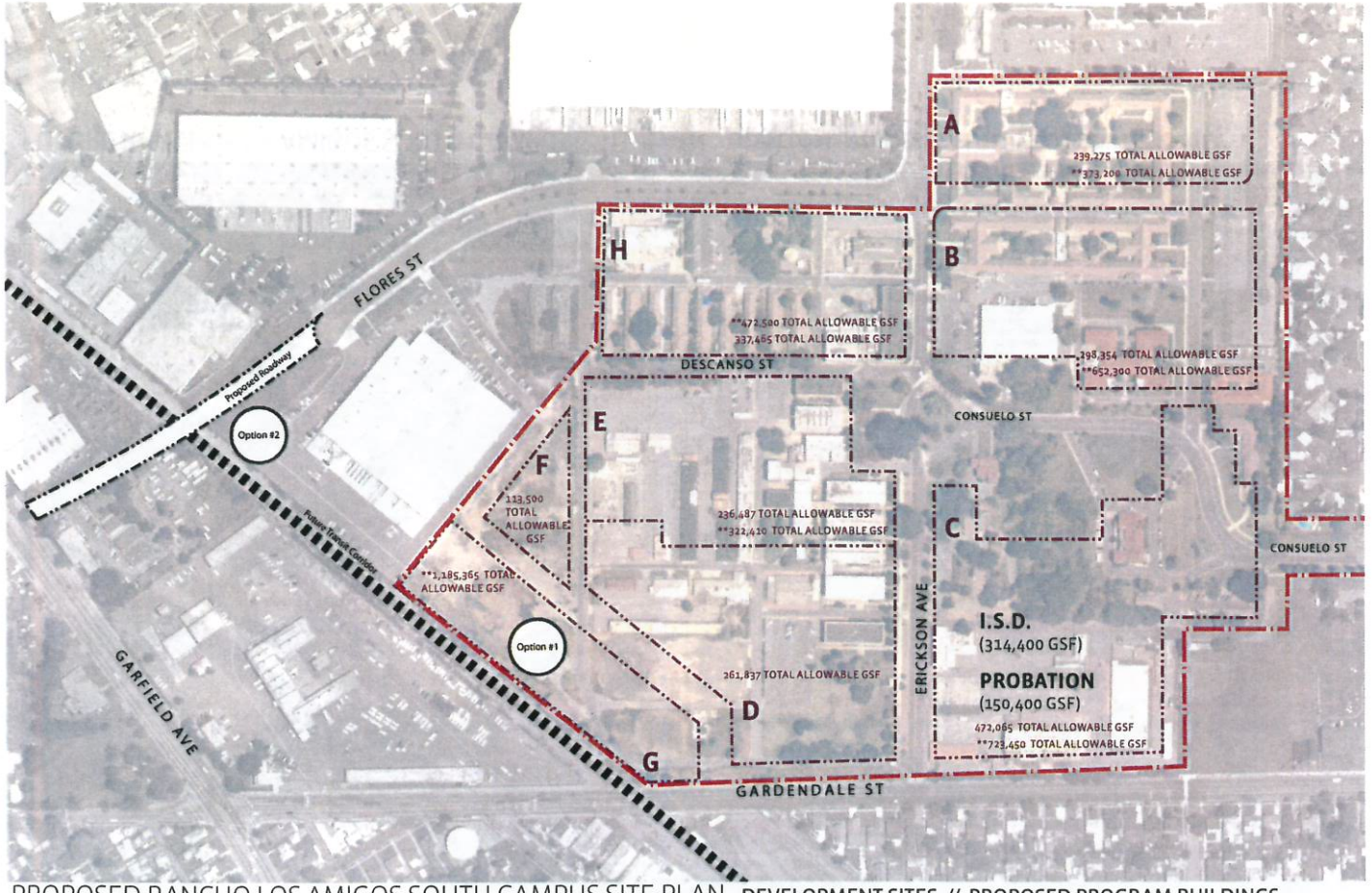
The one-story Kitchen and Dining Building was constructed in 1927 and displays stripped Classical Revival styling. The Kitchen and Dining Building is a significant contributing feature to the Historic District, as it exhibits architectural character and quality, and it illustrates the use and significance of the Historic District as a medical care facility during the period of significance. The building retains a substantial level of integrity.

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[34] *Los Angeles Times*. "Rehabilitation Shop to Open." 4 March 1946. p. 8.

[35] Historic Resources Group. 26 July 1995. Primary Record and District Record: Rancho Los Amigos Medical Center. Submitted to: Office of Historic Preservation, Department of Parks and Recreation, Sacramento, CA.

Development Plan



PROPOSED RANCHO LOS AMIGOS SOUTH CAMPUS SITE PLAN **DEVELOPMENT SITES // PROPOSED PROGRAM BUILDINGS**

0' 50' 200' 400' N

WSAB Transit Corridor

Proposed Rail Station Locations
Two location options currently under consideration

Planning Area

Development Sites (Building)
1,958,983 Total Allowable GSF

A. Other County Departments (tbd)
B. Other County Departments (tbd)
C. I.S.D. & Probation
D. Other County Departments (tbd)
E. Other County Departments (tbd)
F. Other County Departments (tbd)
H. Other County Departments (tbd)

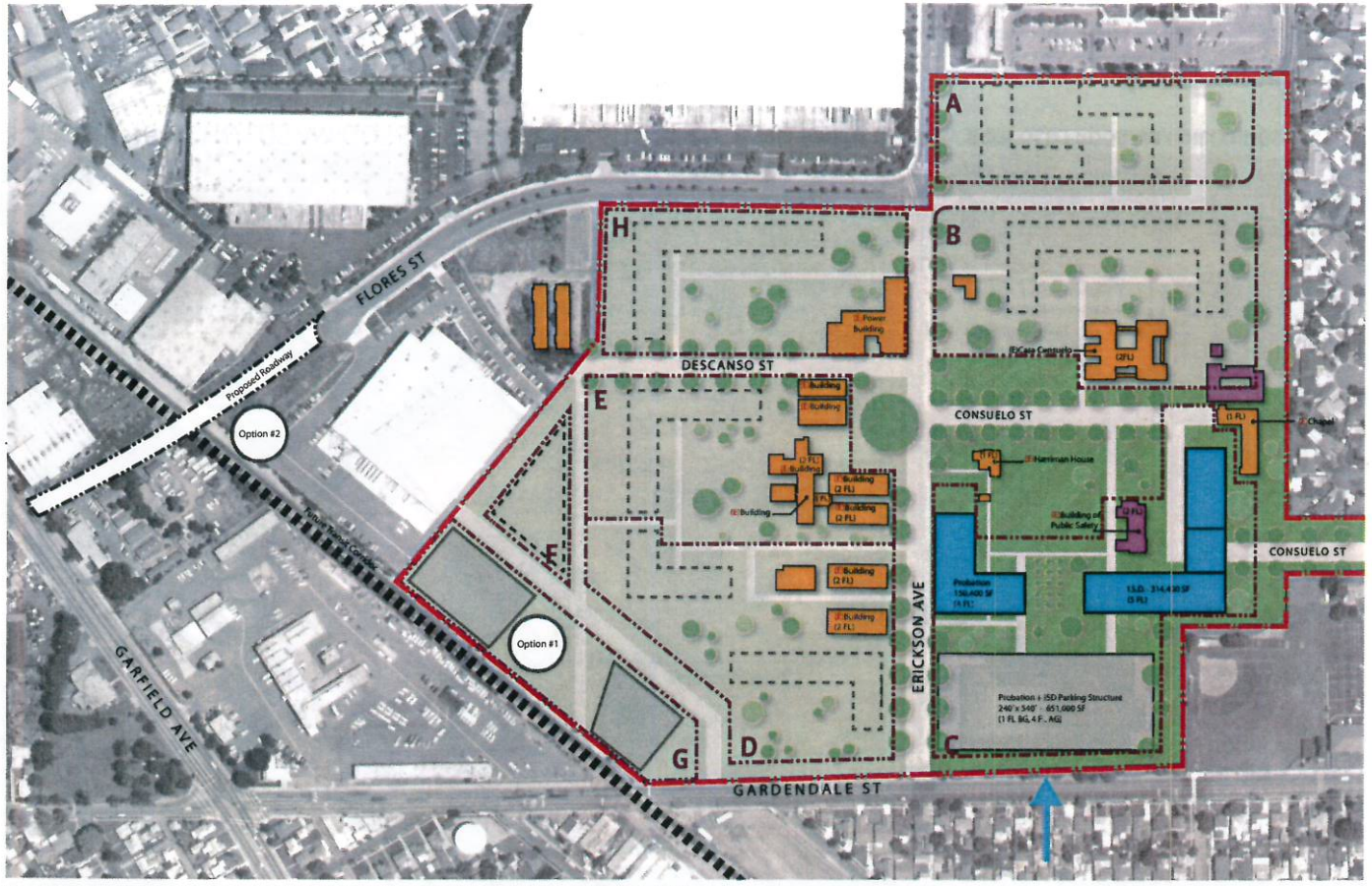
Building GSF Available
(1,494,183 GSF)

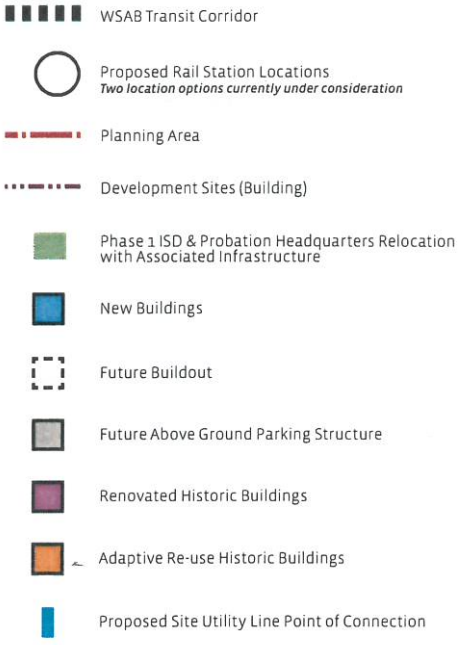
**Development Sites (Parking)
3,729,225 Total Allowable GSF

A. Other County Departments (tbd)
B. Other County Departments (tbd)
C. I.S.D. & Probation
E. Other County Departments (tbd)
G. Other County Departments (tbd)
H. Other County Departments (tbd)

Parking GSF Available
(3,078,225 GSF)

South Campus Conceptual Site Plan





FUTURE RANCHO LOS AMIGOS SOUTH CAMPUS SITE PLAN **DEVELOPMENT SITES // FUTURE BUILDOUT STRATEGY**



Speaker # 1
(DPW Use Only)

SPEAKER CARD

County of Los Angeles
Department of Public Works
Rancho Los Amigos South Campus Project Environmental Impact Report
Scoping Meeting

If you plan to ask a question or make a statement, please fill in the information below and submit the card when requested to do so. If you would like us to read your question or statement, please let us know.

Date: 8/30/2017

Name: JAMES FOUNTAIN Affiliation: Resident

Question/Comment:

1. Why move these employees?
2. Why 6 story office & 4 story garage — blocks the view.
3. I'm basically NIMBY !
4. Intersection at Paramount & Gardendale - left turn lights.
5. Garden Nook Lanes with bike lanes & was 4 lanes

Speaker # 2
(DPW Use Only)

SPEAKER CARD

County of Los Angeles
Department of Public Works
Rancho Los Amigos South Campus Project Environmental Impact Report
Scoping Meeting

If you plan to ask a question or make a statement, please fill in the information below and submit the card when requested to do so. If you would like us to read your question or statement, please let us know.

Date: 8/30/17

Name: Katie Wright LA Affiliation: resident

Question/Comment:

notice of this meeting didn't come to residents north of Imperial - yet we will be affected by increased traffic. Old Liberty School Rd - schools; Pires Avenue

A-3 Scoping Meeting Transcription

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

RANCHO LOS AMIGOS

SOUTH CAMPUS PROJECT

ENVIRONMENTAL IMPACT REPORT

PUBLIC SCOPING MEETING

WEDNESDAY, AUGUST 30, 2017

5:39 P.M. - 7:04 P.M.

REPORTER'S TRANSCRIPTION OF HEARING

BARBARA J. RILEY COMMUNITY & SENIOR CENTER
7810 QUILL DRIVE
DOWNEY, CALIFORNIA 90242

REPORTER: LAURA D. GUERRERO, CSR NO. 7684

DOWNEY, CALIFORNIA

WEDNESDAY, AUGUST 30, 2017, 5:39 P.M.

* * *

LUIS RAMIREZ: SO GOOD AFTERNOON. WE WANT TO THANK YOU FOR COMING TO THE PUBLIC SCOPING MEETING FOR THE ENVIRONMENTAL IMPACT REPORT THAT'S GOING TO BE PREPARED FOR THE PROPOSED RANCHOS LOS AMIGOS SOUTH CAMPUS PROJECT. I WANT TO THANK THE CITY FOR HOSTING US IN THE BUILDING TODAY. LET ME MAKE SURE THIS WORKS.

UP ON THE SCREEN IS THE ADDENDUM THAT WE'RE GOING TO BE GOING OVER TONIGHT. WE'RE GOING TO -- WE'RE GOING TO START WITH SOME INTRODUCTIONS AND GO OVER THE PURPOSE OF TONIGHT'S MEETING. WE ARE GOING TO GO OVER A PROJECT OVERVIEW, INCLUDING BACKGROUND INFORMATION THAT LED TO THE -- THE PROJECT. WE'RE GOING TO GO OVER THE ENVIRONMENTAL REVIEW PROCESS, AND THEN WE'RE GOING TO OPEN UP THE FLOOR TO RECEIVE PUBLIC COMMENTS; AND ONCE WE'RE DONE WITH PUBLIC COMMENTS, WE'RE GOING TO HAVE AN OPEN HOUSE WHERE YOU'RE GOING TO HAVE THE OPPORTUNITY TO REACH OUT TO THE STAFF THAT'S HERE AND ASK ANY QUESTIONS THAT YOU MAY HAVE REGARDING THE PROJECT THAT DO NOT GET ANSWERED DURING THE PRESENTATION.

SO MY NAME IS LUIS RAMIREZ AND I AM A PROGRAM MANAGER WITH LOS ANGELES COUNTY OF PUBLIC WORKS; AND MY

SECTION IS OVERSEEING THE PROJECT THAT IS CURRENTLY HAPPENING OVER HERE IN THE RANCHO LOS AMIGOS HOSPITAL, AND WE'RE GOING TO BE OVERSEEING THE PROJECTS THAT ARE GOING TO BE PROPOSED FOR THE RANCHO LOS AMIGOS SOUTH CAMPUS.

WITH ME TONIGHT, I HAVE WALEED JOUZY. HE IS ONE OF THE PROJECT MANAGERS THAT HAS BEEN WORKING ON THE PLANNING OF THIS PROJECT. WE ALSO HAVE ANTHONY -- EXCUSE ME -- ANTHONY BROWER. HE IS WITH GENSLER ARCHITECTS, AND THEY HAVE BEEN ASSISTING US WITH THE PROGRAMMING FOR THE PROJECT. WE HAVE HANNAH CHEN WITH THE CEO, THE CHIEF EXECUTIVE OFFICE. THE CHIEF EXECUTIVE OFFICE ESSENTIALLY IS THE PROGRAM MANAGER FOR THE COUNTY, SO WE ARE HELPING THEM WITH THE -- WITH THE PREPARATION OF THE PROGRAM DOCUMENTS. WE ALSO HAVE OUR CONSULTANT ENVIRONMENTAL SCIENCE ASSOCIATES, OR E.S.A., AND WITH US TONIGHT IS ADDIE FARRELL. SHE'S THE PROJECT MANAGER; AND WE HAVE MARGARITA JERABEK. SHE IS OUR SENIOR ARCHITECTURAL HISTORIAN. WE HAVE JESSIE FAN, WHO HAS BEEN ASSISTING WITH THE ENVIRONMENTAL IMPACT REPORT; AND JASON SHENDER, WHO IS WORKING ON THE TRAFFIC STUDY THAT WILL BE PREPARED FOR THE PROJECT. FROM SUPERVISOR HAHN'S OFFICE, WE HAVE IVAN SULIC --

IVAN SULIC: HI.

LUIS RAMIREZ: -- JESSICA HO AND

JOCELYN OLIVARES.

JOCELYN RIVERA-OLIVARES: "RIVERA."

LUIS RAMIREZ: SORRY. "RIVERA-OLIVARES," THERE YOU GO.

AND FROM THE CITY OF DOWNEY, WE HAVE SEAN ASHTON, WHO IS MAYOR PRO TEM.

SO THE COUNTY, AS LEAD AGENCY UNDER CEQA, IS HOLDING THIS PUBLIC SCOPING MEETING TO COMPLY WITH CEQA; AND THE PURPOSE OF THE MEETING IS TO PROVIDE THE PUBLIC AND OTHER AGENCIES THE OPPORTUNITY TO PROVIDE INPUT IN THE SCOPE THAT GETS STUDIED AS PART OF THE ENVIRONMENTAL IMPACT REPORT FOR THE PROJECT. SO TONIGHT WE'RE GOING TO GIVE YOU AN OVERVIEW OF THE PROJECT, AS I MENTIONED EARLIER, THEN WE'RE GOING TO OPEN UP THE FLOOR FOR PUBLIC COMMENTS.

WHEN YOU SIGNED IN, YOU SHOULD HAVE RECEIVED A PUBLIC SPEAKER CARD. IF YOU WISH TO MAKE PUBLIC COMMENTS, PLEASE FILL IT OUT AND GIVE IT TO ONE OF THE STAFF THAT'S HERE; OTHERWISE, YOU ALSO SHOULD HAVE RECEIVED A COMMENT CARD THAT YOU CAN FILL OUT AND EITHER TURN IN TONIGHT OR MAIL IN. JUST KNOW THAT IN ORDER FOR THE COMMENTS OR QUESTIONS TO BE TAKEN INTO ACCOUNT IN THE E.I.R., THEY NEED TO BE RECEIVED BY SEPTEMBER 11TH AT 5:30 P.M.

SO THE RANCHO LOS AMIGOS CAMPUS --

JAMES FOUNTAIN: CAN WE HAVE THE LIGHTS TURNED OFF, PLEASE? IT'S REALLY HARD TO SEE IT.

LUIS RAMIREZ: SURE.

JAMES FOUNTAIN: THAT'S BETTER.

LUIS RAMIREZ: OKAY. PERFECT. SO FOR SOME REASON, THIS IS SWITCHING (INDICATING), BUT THERE WE GO.

SO THE RANCHO LOS AMIGOS CAMPUS INCLUDES BOTH THE NORTH AND SOUTH CAMPUS. WE ARE ACTUALLY IN THIS BUILDING RIGHT HERE (INDICATING), WHICH IS ADJACENT TO THE NORTH CAMPUS WHERE THE RANCHO LOS AMIGOS HOSPITAL IS CURRENTLY LOCATED. AS SOME OF YOU OR MOST OF YOU MAY KNOW, THE HOSPITAL IS ACTUALLY, CURRENTLY UNDERGOING A MAJOR CAPITAL UPGRADE. WE'RE BUILDING A NEW HOSPITAL AND ALSO A NEW OUTPATIENT FACILITY.

THE NORTH CAMPUS IS APPROXIMATELY 50 ACRES. WITHIN THE -- THE RANCHO CAMPUS THERE IS ALSO THE SOUTH CAMPUS, WHICH IS WHERE OUR CURRENT PROJECT IS PROPOSED TO BE LOCATED. THIS IS ABOUT 75 ACRES, AND THIS IS IMPERIAL HIGHWAY (INDICATING), SO THE NORTH CAMPUS IS NORTH OF IMPERIAL, AND THE SOUTH CAMPUS IS DIRECTLY SOUTH OF IMPERIAL, AND BOTH OF THEM ARE CONNECTED THROUGH ERIKSON AVENUE, WHICH RUNS PERPENDICULAR TO IMPERIAL FROM THE NORTH CAMPUS TO THE SOUTH CAMPUS.

ON THIS AERIAL (INDICATING), YOU CAN ALSO SEE THE LOCATION WHERE METRO IS PROPOSING TO -- TO INSTALL A

TRANSIT STOP FOR THE -- IT IS FOR THE WEST SANTA ANA BRANCH. THEY ARE ACTUALLY, CURRENTLY PREPARING AN ENVIRONMENTAL IMPACT REPORT FOR THAT PROJECT, AND IT IS A SEPARATE PROJECT FROM THE ONE -- FROM THE SOUTH CAMPUS PROJECT.

SO THE PROJECT SITE IS -- IT KEEPS CHANGING (INDICATING). HELLO.

SO THIS IS ACTUALLY A BLOW-UP OF THE SOUTH CAMPUS (INDICATING), SO THE PROJECT SITE INCLUDES THE ENTIRE SOUTH CAMPUS. IT IS ACTUALLY SHOWN BY THIS BLACKED-OUT LINE THAT YOU SEE HERE ON THE EXHIBIT (INDICATING); AND WITHIN THAT PROJECT SITE -- WITHIN THAT 74-ACRE SITE, THERE IS A PROPOSED DEVELOPMENT AREA WHICH IS DEPICTED HERE WITH THE WHITE-DASHED LINE (INDICATING). THE DEVELOPMENT AREA IS THE AREA WHERE WE'RE PLANNING ON -- ON CONSTRUCTING THE IMPROVEMENTS THAT ARE GOING TO BE DISCUSSED AS PART OF THE PROJECT; AND IT IS, AS I MENTIONED, APPROXIMATELY 28 ACRES.

SO TO THE NORTH, WE HAVE FLORENCE STREET, THEN WE HAVE GARDENDALE. AS I MENTIONED, ERIKSON GOES RIGHT THROUGH IT (INDICATING); AND THIS IS CONSUELO STREET (INDICATING), WHICH RUNS THROUGH THE CAMPUS AND OUT TO PARAMOUNT.

A BRIEF HISTORY OF THE SOUTH CAMPUS. IT WAS ORIGINALLY DEVELOPED BACK IN 1888 AS THE L.A. COUNTY

POOR FARM; AND IT WAS FOR INJURED, ILL AND ELDERLY INMATES, AND THERE WERE ACTUALLY PATIENTS -- BACK THEN, THEY CALLED THEM "INMATES" -- WHO COULD NOT TAKE CARE OF THEMSELVES OR HAD PEOPLE THAT COULD ASSIST IN TAKING CARE OF THEM. SO AT THE POOR FARM, ABLE-BODIED PATIENTS, ESSENTIALLY, DID FARM LABOR TO DEFRAY THE COST OF STAYING WITHIN -- WITHIN THE POOR FARM.

IN 1915, WILLIAM HARRIMAN BECAME THE SUPERINTENDENT OF THE -- OF THE FARM AND HE BEGAN TO OVERSEE A MAJOR EXPANSION OF THE FARM AND, ULTIMATELY, BEGAN THE TRANSFORMATION OF THE POOR FARM FROM THE FARM INTO THE HOSPITAL.

IN 1932, HARRIMAN SUCCESSFULLY MANAGED TO CHANGE THE NAME OF THE FACILITY FROM "THE COUNTY POOR FARM" TO "RANCHO LOS AMIGOS," AND HE DID THIS ESSENTIALLY TO SHED THE STIGMA THAT WAS ASSOCIATED WITH IT BEING A POOR FARM AND ALSO TO SIGNAL THE FACT THAT IT WAS -- IT WAS BEING DEVELOPED INTO A MEDICAL FACILITY.

IN THE MID-'50'S, RANCHO LOS AMIGOS ACTUALLY BECAME A POLIO TREATMENT CENTER.

IN THE LATER 50'S, EUGENE ERIKSON BEGAN THE RELOCATION OF THE RANCHO LOS AMIGOS HOSPITAL FROM THE SOUTH CAMPUS UP TO THE NORTH CAMPUS, WHERE IT CURRENTLY IS LOCATED.

SO IN THE 1950'S IS WHEN THE BUILDINGS BEGAN

TO BE VACATED AND SHUT DOWN; AND IN THE 1970'S AND '80'S, ESSENTIALLY, THE MAJORITY OF THE BUILDINGS WITHIN THE SOUTH CAMPUS WERE BOARDED UP AND REMAINED VACANT.

THIS IS A HISTORIC PHOTO OF THE SOUTH CAMPUS FROM 1926 (INDICATING), SO IMPERIAL HIGHWAY APPROXIMATELY RUNS ALONG IN THIS DIRECTION (INDICATING). THIS IS ERIKSON (INDICATING). THIS IS APPROXIMATELY WHERE GARDENDALE IS (INDICATING), AND THIS IS CONSUELO STREET (INDICATING), WHICH ULTIMATELY WOULD HAVE LED INTO -- INTO PARAMOUNT. AS YOU CAN SEE, THE MAJORITY OF THE BUILDINGS THAT ARE SHOWN IN THIS PHOTO STILL REMAIN WITHIN THE CAMPUS.

SO GIVEN THE HISTORIC SETTING, PORTIONS OF THE SOUTH CAMPUS HAVE BEEN DESIGNATED AS A HISTORIC DISTRICT IN SEVERAL PAST STUDIES THAT THE COUNTY HAS CARRIED OUT. THE LATEST ONE WAS COMMISSIONED IN 2011; SO BEING THAT IT'S BEEN OVER FIVE YEARS SINCE THE LAST HISTORIC SURVEY, WE ARE ACTUALLY, AS PART OF THE E.I.R., GOING TO UNDERGO A COMPREHENSIVE CAMPUSWIDE EVALUATION OF ALL OF THE BUILDINGS WITHIN THE SOUTH CAMPUS.

THIS SLIDE DEPICTS SOME OF THE EXISTING CONDITIONS WITHIN THE SOUTH CAMPUS (INDICATING). CURRENTLY, THIS SITE HAS APPROXIMATELY 113 BUILDINGS. THEY INCLUDE SOME HOSPITAL WARDS, INFIRMARIES, SOME RESIDENTIAL UNITS, SEVERAL ADMINISTRATION BUILDINGS, A

POWER PLANT, AND VARIOUS SUPPORT BUILDINGS, AS WELL AS A COUPLE OF REMNANTS FROM WHEN IT USED TO BE THE POOR FARM, WHICH INCLUDES A STABLE AND THE BROODER HOUSE.

SO WITH THE EXCEPTION OF THE OFFICE OF PUBLIC SAFETY, WHICH IS CURRENTLY BEING USED BY THE SHERIFF'S DEPARTMENT, THE REMAINING BUILDINGS WITHIN THE SOUTH CAMPUS ARE VACANT AND THEY ARE CURRENTLY IN VARIOUS STATES OF ABANDONMENT AND DISREPAIR. AS I MENTIONED EARLIER, THEY WERE VACATED IN THE '70'S AND '80'S AND THEY WERE BOARDED UP IN THE '90'S. THE MAJORITY OF THE SITE IS INACCESSIBLE TO THE PUBLIC, WITH THE EXCEPTION, AS I MENTIONED, OF THE PUBLIC SAFETY BUILDING WHICH IS USED BY THE SHERIFF'S DEPARTMENT. THERE IS CURRENTLY A FENCE AROUND THE SOUTH CAMPUS, SO IT IS NOT READILY -- READILY ACCESSIBLE.

OVER THE PAST COUPLE OF YEARS, WE HAVE SEEN -- ACTUALLY, WITHIN THE LAST SIX MONTHS, THERE'S BEEN VARIOUS FIRES WITHIN THE SOUTH CAMPUS WHICH ARE SUSPECTED TO BE THE RESULT OF ARSON. IN ADDITION TO THAT, THERE'S BEEN VANDALISM WITHIN THE SOUTH -- SLIDE CHANGED AGAIN (INDICATING) -- VANDALISM WITHIN SOUTH CAMPUS. A LOT OF THE COPPER IN THE ELECTRICAL LINES HAS BEEN -- HAS BEEN STOLEN. IN FACT -- IT'S LIKE MAGIC (INDICATING). YEAH, IT'S VERY SENSITIVE.

IN FACT, I THINK WITHIN THE LAST SIX MONTHS,

THERE WAS A PERIOD OF TIME WHERE -- THERE YOU GO (INDICATING). BACK AT IT AGAIN. I'M GOING TO BE -- OKAY. WELL, WE'LL LEAVE IT THERE. SO WITHIN THE LAST SIX MONTHS, THERE WAS ACTUALLY -- IS IT CHANGING STILL? NO, IT ISN'T -- WE HAD SOME COPPER LINES STOLEN, AND THE CRIME LAB -- THE EXISTING CRIME LAB THAT IS OUTSIDE OF THE SOUTH CAMPUS AND THE SAFETY POLICE WERE WITHOUT POWER FOR SEVERAL DAYS BECAUSE SOMEBODY BROKE INTO AN ELECTRICAL MANHOLE.

SO AS A RESULT OF THAT, SUPERVISOR HAHN ASKED THAT WE COME UP WITH INTERNAL MEASURES TO BETTER SECURE THE SOUTH CAMPUS, SO OVER THE PAST COUPLE OF MONTHS, WE HAVE ACTUALLY GONE AHEAD AND INSTALLED AN EIGHT-FOOT FENCE AROUND THE ENTIRE PERIMETER OF THE CAMPUS TO BETTER SECURE THE BUILDINGS AND TO PREVENT THE PUBLIC FROM COMING IN AND OUT. THERE'S BEEN AN INCREASE IN THE NUMBER OF PATROLS FROM THE SHERIFF'S DEPARTMENT THAT CIRCULATE THE AREA, AND WE ARE IN THE PROCESS OF INSTALLING ADDITIONAL SECURITY LIGHTING WITHIN THE SITE IN HOPES THAT THAT DETERS PEOPLE FROM COMING INTO THE CAMPUS AND ESSENTIALLY PROTECT THE BUILDINGS WITHIN THE CAMPUS FROM THE PUBLIC.

JAMES FOUNTAIN: CAN I MAKE A SUGGESTION ON THAT? I THINK A COUPLE OF SECURITY CAMERAS MIGHT GIVE YOU A CLUE AS TO WHO IS COMING AND GOING. IT CAN'T BE

THAT EXPENSIVE. YOU CAN GET RHEEM CAMERAS FOR LIKE 200 BUCKS.

LUIS RAMIREZ: YEAH, THAT'S A GOOD SUGGESTION. THANK YOU.

SO A BRIEF PROJECT BACKGROUND, WHAT LED TO THE PROJECT COMING TO FRUITION, OVER THE PAST SEVERAL YEARS, THE COUNTY HAS BEEN IN THE PROCESS OF EVALUATING AND ASSESSING ALL OF THE EXISTING COUNTY-OWNED FACILITIES. THEY -- THEY HIRED -- THEY TASKED THE CEO ESSENTIALLY WITH ASSESSING ALL OF THE BUILDINGS AND STARTING LOOKED AT KNOWN DEFICIENCIES, SOME OF THEM DUE TO MAINTENANCE. THE ASSESSMENT INCLUDED SOME OF THE EXISTING FACILITIES HERE WITHIN DOWNEY THAT ARE CURRENTLY HOUSING THE PROBATION DEPARTMENT, INTERNAL SERVICES DEPARTMENT, AND THAT ALSO INCLUDED THE EXISTING CRIME LAB THAT THE SHERIFF DEPARTMENT HAS NORTH OF THE SOUTH CAMPUS.

SO A LOT OF THESE DEPARTMENTS ARE IN BUILDINGS THAT HAVE -- OR ARE NEAR THE POINT OF LIVING THEIR USEFUL LIFE SPAN; AND, ALSO, SOME OF THESE BUILDINGS ARE FROM THE 1950'S AND '60'S, SO THE DEPARTMENTS HAVE ESSENTIALLY OUTGROWN THE SPACE THAT THEY'RE CURRENTLY LOCATED AT, AND THE COUNTY HAS HAD TO GO OUT AND LEASE ADDITIONAL SPACE TO BE ABLE TO HOUSE THE DEPARTMENT.

SO IN 2014, THE BOARD OF SUPERVISORS ASKED THAT WE LOOK INTO POSSIBLE WAYS OF CONSOLIDATING THESE

DEPARTMENTS OUT OF LEASED SPACE AND INTO COUNTY-OWNED FACILITIES, SO THERE WAS A FEASIBILITY STUDY THAT WAS COMMISSIONED, WHICH WAS COMPLETED IN 2016, WHICH LOOKED AT PROBATION, I.S.D., THE SHERIFF'S CRIME LAB, AS WELL AS SEVERAL OTHER DEPARTMENTS, AND BEGAN TO LOOK AT WAYS OF CONSOLIDATING THEM INTO EXISTING COUNTY FACILITIES.

UNFORTUNATELY, NONE OF THE EXISTING FACILITIES THAT THE COUNTY OWNS WERE BIG ENOUGH TO HOUSE ANY OF THE INDIVIDUAL DEPARTMENTS, SO THE FEASIBILITY STUDY ACTUALLY FOUND THAT THE MOST COST EFFECTIVE WAY TO CONSOLIDATE THE DEPARTMENTS WOULD BE TO CONSTRUCT NEW COUNTY-OWNED FACILITIES WITHIN THE LARGELY UNDEVELOPED SOUTH CAMPUS.

SO THE PROPOSED PROJECT THAT WE WILL BE DOING THE ENVIRONMENTAL IMPACT REPORT INCLUDES ADMINISTRATIVE OFFICES. IT'S ACTUALLY ADMINISTRATIVE HEADQUARTERS FOR THE PROBATION DEPARTMENT, INTERNAL SERVICE -- AND INTERNAL SERVICES DEPARTMENT. THE INTERNAL SERVICES DEPARTMENT BUILDING IS GOING TO BE APPROXIMATELY 370,000 SQUARE FEET, AND IT WILL BE UP TO SIX STORIES HIGH OR ABOUT 90 FEET. THE PROBATION DEPARTMENT WILL BE ABOUT 220,000 SQUARE FEET AND WILL ALSO BE APPROXIMATELY SIX STORIES HIGH OR 90 FEET; AND THE CRIME LAB WILL BE ABOUT 60,000 SQUARE FEET, AND IT IS PROPOSED TO BE APPROXIMATELY TWO STORIES OR 30 FEET.

SO PROBATION, I HAVE TO STRESS THE FACT THAT THESE ARE ADMINISTRATIVE BUILDINGS, SO THE PROBATION HEADQUARTERS, THERE WILL -- PROBATIONERS WILL NOT BE COMING IN TO SEE PROBATION OFFICERS IN THERE. IT WILL JUST BE THEIR ADMINISTRATION. PROBATION OFFICERS MAY COME TO THE BUILDING FOR TRAINING AND OTHER -- OTHER FUNCTIONS, BUT PROBATIONERS WILL NOT BE COMING INTO THE SOUTH CAMPUS. SAME THING WITH I.S.D., I.S.D., INTERNAL SERVICES, IT WILL BE JUST THEIR ADMINISTRATION.

SO WE ARE CURRENTLY STILL IN THE EARLY PLANNING PROCESS, SO EVEN THOUGH WE LOOKED AT THE POTENTIAL SQUARE FOOTAGE THAT THESE PROGRAMS OR BUILDINGS WILL TAKE, UNTIL WE HIRE AN ARCHITECT TO DESIGN THE PROJECT, WE WILL NOT KNOW WHAT THE FINAL CONFIGURATION OF THE -- OF THE BUILDINGS WILL BE; HOWEVER, WE DO NOT ANTICIPATE THAT IT WILL BE A PROJECT LARGER THAN 650,000 SQUARE FEET. THERE'S ALSO A POSSIBILITY THAT PROBATION AND I.S.D. MAY BE HOUSED IN TWO SEPARATE BUILDINGS OR THEY MAY BE HOUSED IN A SINGLE BUILDING WHERE THEY'RE GOING TO BE CO-LOCATED.

SO WE ARE -- AS PART OF THE PROJECT, WE WILL BE PROVIDING SOME PARKING. IT WILL BE A COMBINATION OF SURFACE LOTS AND A PARKING STRUCTURE. THE PARKING STRUCTURE IS NOT EXPECTED TO BE TALLER THAN 90 FEET.

THE PROJECTS ARE GOING TO BE L.E.E.D. --

ACHIEVE A CERTIFICATION OF L.E.E.D. GOLD RATING, AND THAT IS FOR SUSTAINABILITY; AND THE INFRASTRUCTURE COMPONENT OF THE PROJECT WILL BE RATED ENVISION GOLD. AS PART OF THE PROJECT, WE'LL ALSO BE PROVIDING INFRASTRUCTURE FOR THE BUILDINGS, AND THAT'S GOING TO INCLUDE UTILITIES SUCH AS SEWER, WATER, STORM DRAINS, POWER, AS WELL AS SOME IMPROVEMENTS TO THE ROADS AROUND THE PROPOSED DEVELOPMENT AREAS.

THERE IS A POSSIBILITY THAT THE PROJECTS WILL BE DELIVERED USING A COMBINATION OF DESIGN BUILD. AND FOR THOSE OF YOU WHO ARE NOT FAMILIAR WITH THAT, DESIGN BUILD IS WHERE WE HIRE ONE CONTRACTOR THAT DOES BOTH THE DESIGN AND THE CONSTRUCTION OF THE PROJECT AS OPPOSED TO A TYPICAL DELIVERY METHOD WHERE WE HIRE AN ARCHITECT; THEY DESIGN THE PROJECT; AND THEN WE BID THE PROJECT OUT. SO IT'S A SINGLE ENTITY THAT WE CONTRACT WITH, AND THAT BECOMES -- ACTUALLY FACILITATES THE DEVELOPMENT OF THE PROJECT SINCE YOU ONLY CONTRACT WITH ONE INDIVIDUAL. IT TENDS TO ALLOW US TO DELIVER THE PROJECTS A LITTLE BIT QUICKER, OBTAIN BETTER QUALITY, AND ALSO DOING IT AT A LESS EXPENSIVE COST.

THE SCOPE IN HERE SHOULD BE CONSISTENT WITH THE SCOPE THAT WAS DESCRIBED IN THE NOTICE OF PREPARATION THAT WE MAILED OUT ON AUGUST 9. IF YOU DON'T HAVE A COPY OF IT, WE DO HAVE EXTRA COPIES HERE

THAT YOU CAN TAKE WITH YOU.

SO THIS EXHIBIT SHOWS THE PROPOSED DEVELOPMENT AREAS WITHIN THE SOUTH CAMPUS. SO AS WE SAW EARLIER, THIS IS THE PERIMETER OF THE ENTIRE SOUTH CAMPUS (INDICATING). THIS IS ERIKSON (INDICATING), WHICH, AGAIN, TAKES US ALL THE WAY UP TO THE NORTH CAMPUS. WITHIN PARCEL "A," WHICH IS ON THE NORTHEAST CORNER OF THE CAMPUS, WE'RE PLANNING -- DEVELOPING THE TWO -- THE PROBATION AND I.S.D. HEADQUARTERS, ALONG WITH THE PARKING STRUCTURE, APPROXIMATELY 12.7 ACRES; AND WITHIN PARCEL "B," WE'RE PLANNING ON BUILDING THE NEW CRIME LAB FOR THE SHERIFF'S DEPARTMENT. THIS IS APPROXIMATELY 4.1 ACRES. THIS IS GARDENDALE STREET (INDICATING), AND THE HIGH SCHOOL IS RIGHT IN THIS AREA (INDICATING).

IN THIS EXHIBIT, YOU CAN ALSO SEE THE LOCATION OF THE FUTURE SOUTH CAMPUS SPORTS CENTER. THAT IS A SEPARATE PROJECT THAT WAS APPROVED BY THE BOARD IN THE FALL OF 2016, AND IT WILL CONSIST OF SPORTS FIELDS WITH A CONCESSION BUILDING. AGAIN, IT'S -- IT'S A SEPARATE PROJECT; HOWEVER, OUR ENVIRONMENTAL IMPACT REPORT WILL TAKE INTO ACCOUNT THE CUMULATIVE IMPACTS OF THAT PROJECT. WE JUST WANTED TO KIND OF GIVE YOU AN IDEA OF ALL OF THE DEVELOPMENT THAT WILL BE HAPPENING WITHIN THE SOUTH CAMPUS.

SO AS PART OF THE PROJECT, WE ANTICIPATE THE

DEMOLITION OF SOME EXISTING BUILDINGS TO MAKE ROOM OR MAKE SPACE FOR THE NEW CONSTRUCTION. WITHIN THE DEVELOPMENT AREA, WHICH IS THE -- THE DOTTED-WHITE LINE (INDICATING), WHICH CONTAINS PARCEL "A" FOR I.S.D. AND PROBATION AND PARCEL "B" FOR THE CRIME LAB, THERE ARE 51 STRUCTURES; AND THE ENVIRONMENTAL IMPACT REPORT -- THE REPORT WILL NEED TO ASSESS THE DEMOLITION OF POTENTIALLY ALL 51 STRUCTURES.

OUTSIDE OF THE DEVELOPMENT AREA AND THE REMAINDER OF THE SOUTH CAMPUS, THE PROJECT MAY DEMOLISH UP TO AN ADDITIONAL 62 STRUCTURES. AT THIS POINT, AGAIN, WE REALLY DON'T KNOW IF THAT WILL BE THE CASE OR NOT. SOME OF THOSE STRUCTURES, AS I BRIEFLY MENTIONED EARLIER, ARE PART OF THE HISTORIC DISTRICT. THEY HAVE BEEN DEEMED TO BE CONTRIBUTORS TO THE DISTRICT, SO OUR CURRENT ASSESSMENT OF THOSE BUILDINGS WILL GIVE US A LITTLE BIT MORE INFORMATION AS TO WHICH BUILDINGS REMAIN CONTRIBUTORS AND WHICH DO NOT, AND IT WILL HELP THE COUNTY MAKE DECISIONS AS TO WHICH BUILDINGS REMAIN ON SITE AND WHICH ONES ARE DEMOLISHED. SO THAT, IN A NUTSHELL, IS OUR PROJECT AND IT'S WHAT THE COUNTY IS PROPOSING TO DEVELOP WITHIN THE SOUTH CAMPUS.

AFTER THE PRESENTATION IS DONE, AS I MENTIONED, WE'RE GOING TO HAVE AN OPEN HOUSE, SO IF YOU HAVE ANY SPECIFIC OR DETAILED QUESTIONS THAT WE DIDN'T

COVER DURING THE PRESENTATION, WE'D BE HAPPY TO ANSWER THEM. RIGHT NOW, I'M GOING TO TURN THE PRESENTATION OVER TO ADDIE, WHO WILL WALK YOU THROUGH THE ENVIRONMENTAL PROCESS.

ADDIE FARRELL: OKAY. THANK YOU, LUIS.

CAN EVERYONE HEAR ME OKAY?

WELL, AS LUIS MENTIONED --

JAMES FOUNTAIN: SPEAK UP.

ADDIE FARRELL: -- IN THE BEGINNING --

JAMES FOUNTAIN: A LITTLE CLOSER. CLOSER.

ADDIE FARRELL: OKAY. IT'S TOUCHING MY MOUTH.

AS LUIS HAD MENTIONED IN THE BEGINNING OF HIS PRESENTATION, THE COUNTY OF LOS ANGELES BOARD OF SUPERVISORS IS THE LEAD AGENCY WHO IS GOING TO BE DETERMINING WHETHER OR NOT TO APPROVE THIS PROJECT, AND THAT IS WHAT IS CALLED A DISCRETIONARY ACTION OR A DISCRETIONARY DECISION; AND BECAUSE THE COUNTY HAS TO MAKE THIS DECISION, IT IS SUBJECT TO THE REQUIREMENTS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OR CEQA.

SO THE PURPOSES OF CEQA ARE REALLY FOR THE LEAD AGENCY, IN THIS CASE, LOS ANGELES COUNTY, TO INFORM GOVERNMENTAL DECISION MAKERS, THE PUBLIC, STAKEHOLDERS, ABOUT WHAT THE POTENTIAL, SIGNIFICANT ENVIRONMENTAL IMPACTS COULD BE THAT WOULD RESULT FROM IMPLEMENTATION OF THIS PARTICULAR PROJECT THAT LUIS JUST DESCRIBED.

THE LEAD AGENCY UNDER CEQA IS ALSO REQUIRED TO IDENTIFY WAYS THAT THOSE ENVIRONMENTAL IMPACTS CAN BE REDUCED, SO IT DOES NOT -- THROUGH IDENTIFYING WHAT WE CALL MITIGATION MEASURES THAT ATTEMPT TO REDUCE IMPACTS, WHERE FEASIBLE, AND ALSO THROUGH LOOKING AT DIFFERENT ALTERNATIVES OF THE PROJECT TO ALSO LOOK AT WAYS TO REDUCE THOSE IMPACTS.

THE LEAD AGENCY UNDER CEQA IS ALSO REQUIRED TO PREVENT SIGNIFICANT AND UNAVOIDABLE IMPACT BY REQUIRING CHANGES TO THE PROJECT DESIGN, AND THAT COULD BE THROUGH ELEMENTS OF THE PROJECT DESIGN OR THROUGH THOSE MITIGATION MEASURES THAT I HAD DESCRIBED.

IF THE E.I.R. OR, YOU KNOW, THE EVALUATION DETERMINES THAT EVEN WITH ALL OF THE IMPLEMENTATION OF MEASURES OR PROJECT DESIGN FEATURES THAT THERE COULD BE SIGNIFICANT IMPACTS THAT REMAIN, THE LEAD AGENCY THAT -- IS REQUIRED TO DISCLOSE TO THE PUBLIC WHY THEY WOULD ADOPT THIS PROJECT EVEN IN LIGHT OF THOSE SIGNIFICANT IMPACTS, AND THAT HAPPENS AT THE END OF THE CEQA PROCESS AND IT'S CALLED "MAKING A STATEMENT OF OVERRIDING CONSIDERATIONS" AND MAKING THEIR FINDINGS THAT REALLY JUSTIFY WHY THEY'RE APPROVING THE PROJECT.

SO AT THE BEGINNING OF THIS PROCESS, THE COUNTY REALIZED THAT GIVEN THE RESOURCES THAT ARE PRESENT ON THE SITE -- IT'S A HISTORIC DISTRICT. THERE

ARE OTHER RESOURCES ON -- ON THE SITE. THERE ARE HOUSES' MATERIALS ISSUES, OTHER CONCERNS THAT, REALLY, AN ENVIRONMENTAL IMPACT REPORT OR E.I.R. WAS THE APPROPRIATE LEVEL OF CEQA DOCUMENTATION TO REALLY STUDY THOSE ENVIRONMENTAL IMPACTS. SO AN E.I.R. IS KIND OF THE HIGHEST-TIER ENVIRONMENTAL DOCUMENT -- DOCUMENT THAT COULD BE DONE FOR A PROJECT.

SO THE PURPOSES OF AN E.I.R., OR THE E.I.R. THAT'S GOING TO BE PREPARED FOR THIS PROJECT, ARE REALLY TO ANALYZE THE SIGNIFICANT IMPACTS OF THE PROJECT, BOTH THE TEMPORARY CONSTRUCTION-RELATED IMPACT, THE LONG-TERM OPERATIONAL IMPACT, IDENTIFY MITIGATION MEASURES AND ALTERNATIVES THAT COULD REDUCE THOSE IMPACTS, AND THEN DISCLOSE WAYS THAT THEY COULD BE REDUCED -- THAT THE IMPACTS COULD BE REDUCED.

SO THIS SLIDE DEMONSTRATES THE CEQA PROCESS FOR PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT (INDICATING). YOU CAN SEE WITH THE RED ARROW THERE IN THE LEFT, THIS IS WHERE WE ARE (INDICATING), SO WE'RE AT THE VERY INITIAL STAGES OF THIS PROCESS. IT STARTED WITH THE COUNTY DISTRIBUTING WHAT WE CALL "THE NOTICE OF PREPARATION" OR THE "N.O.P." ON AUGUST 9TH, AND THAT REALLY SIGNALED THE START OF THIS CEQA PROCESS.

THE SCOPING MEETING THAT WE'RE HAVING THIS AFTERNOON IS PART OF THAT PUBLIC SCOPING PROCESS, AS

WELL. THROUGH THIS 30-DAY COMMENT PERIOD, THE COUNTY IS GOING TO BE GATHERING ALL OF THE COMMENTS AND FEEDBACK THAT WE RECEIVE, AND WE WILL BE LOOKING AT THAT AND CONSIDERING WHETHER OR NOT OR HOW IT GOES INTO DEVELOPING THE ENVIRONMENTAL ANALYSIS. SO AT THIS SCOPING LETTER -- AT THIS SCOPING PHASE, THE COUNTY DOESN'T PREPARE RESPONSES TO THE COMMENTS. TONIGHT WE'RE NOT RESPONDING TO COMMENTS. WE'RE MERELY TRYING TO GATHER ALL OF THE INFORMATION THAT WE CAN TO ASSURE IN THE BEGINNING STAGES THAT THE E.I.R. IS ADDRESSING ALL OF THE ISSUES.

AT THE CONCLUSION OF THIS PERIOD, WE WILL BEGIN PREPARING A SERIES OF TECHNICAL ANALYSES. WE'RE GOING TO BE LOOKING AT VARIOUS -- A VARIETY OF DIFFERENT TOPICS, WHICH I'LL TALK ABOUT NEXT, AND THEN WE WILL BE PREPARING THE DRAFT E.I.R.

THE NEXT OPPORTUNITY FOR PUBLIC COMMENT IS GOING TO BE WHEN THE DRAFT E.I.R. IS COMPLETE AND WE PUT IT OUT FOR AN ADDITIONAL COMMENT PERIOD, AND THAT'S TYPICALLY A 45-DAY COMMENT PERIOD, AND RIGHT NOW OUR SCHEDULE IS ANTICIPATING SOMETIME IN SPRING OF 2018 FOR THE RELEASE OF THAT DRAFT E.I.R. AT THAT PHASE, THE COUNTY WILL HAVE A 45-DAY COMMENT PERIOD. WE'LL RECEIVE ALL OF THE COMMENTS. WE WILL HAVE ANOTHER PUBLIC MEETING; AND FOR ALL OF THOSE COMMENTS, CEQA REQUIRES

THAT THE LEAD AGENCY DOES AT THAT TIME RESPOND TO ALL THE COMMENTS THAT ARE RECEIVED THAT PERTAIN TO THE ENVIRONMENTAL ISSUES THAT ARE IDENTIFIED IN THE E.I.R., AND THEN THE COUNTY WILL THEN COLLECT ALL OF THOSE COMMENTS, RESPOND TO THE COMMENTS.

THERE MAY BE SOME REVISIONS TO THE DRAFT E.I.R. THAT ARE NECESSARY, AND ALL OF THAT INFORMATION, THEN, GOES TOGETHER FOR THE COUNTY BOARD OF SUPERVISORS FOR THEM TO MAKE AN INFORMED DECISION AS TO WHETHER OR NOT TO APPROVE THIS PROJECT, AND THAT WOULD ALSO INCLUDE A FINDING -- AS I MENTIONED, THAT STATEMENT OF OVERRIDING CONSIDERATIONS IN THE EVENT THAT THERE ARE SIGNIFICANT ENVIRONMENTAL IMPACTS.

THAT IS CURRENTLY ANTICIPATED FOR FALL OF 2018, AND AT THAT TIME THERE WOULD BE A PUBLIC -- THAT'S AN OPEN SESSION. SO THERE WOULD BE PUBLIC COMMENT THAT COULD BE COLLECTED DURING THAT TIME, AND THEN IT'S ANTICIPATED THAT IN THE FALL OF 2018 THERE WOULD BE WHAT'S CALLED "A NOTICE OF DETERMINATION," IF THE COUNTY DOES CHOOSE TO APPROVE THIS PROJECT, CERTIFY THE E.I.R., AND ADOPT ALL OF THE MITIGATION MEASURES THAT ARE GOING TO BE REQUIRED.

SO YOU CAN SEE THE -- WITH THE -- WITH THE LITTLE BUBBLES HERE (INDICATING), THESE ARE THE OPPORTUNITIES FOR -- FOR PUBLIC COMMENT.

SO -- BUT FOR TONIGHT, AGAIN, WE'RE IN THIS SCOPING PERIOD, SO I JUST WANTED TO KIND OF REITERATE THE PURPOSE OF WHERE WE ARE IN THE CEQA PROCESS. THE PURPOSE OF THE NOTICE OF PREPARATION, AGAIN, THAT WENT OUT ON AUGUST 11, IS REALLY TO ANNOUNCE THAT THE ENVIRONMENTAL IMPACT REPORT IS GOING TO BE INITIATED, SO WE HAVE A POTENTIAL PROJECT WE'RE GOING TO CONSIDER. WE'RE STARTING THE CEQA PROCESS, AND THAT'S THE PURPOSE OF THIS KIND OF SIGNAL OF THE NOTICE OF PREPARATION. IT INCLUDES A BRIEF DESCRIPTION OF THE PROJECT. IT'S ON PAGE 2 OF THE N.O.P., IF YOU'VE SEEN THAT. AGAIN, WE HAVE COPIES HERE IN THE BACK.

THE N.O.P. ALSO PROVIDES SOME PRELIMINARY INFORMATION ABOUT WHAT THE POTENTIAL IMPACTS OF THIS PROJECT ARE LOOKING LIKE AT THIS POINT, AND THEN, AGAIN, IT STARTS THE 30-DAY COMMENT PERIOD; AND THIS -- THE SCOPING PERIOD IS REALLY, AGAIN, TO OBTAIN PUBLIC AGENCY STAKEHOLDER INPUT EARLY ON IN THE PROCESS. WE WANT TO BRING TOGETHER, RESOLVE ANY ISSUES OR CONCERNS, REALLY UNDERSTAND WHAT THE POTENTIAL ENVIRONMENTAL IMPACTS COULD BE FOR THE RESIDENTS WHO LIVE IN THE COMMUNITY AROUND HERE WHO UNDERSTAND THE SITE. WE JUST WANT TO GET FEEDBACK FROM THE VERY BEGINNING. WE ALSO WANT TO REALLY TRY TO REFINE THE SCOPE OF THE ENVIRONMENTAL IMPACT REPORT.

SO AN ISSUE THAT WE IDENTIFY AS NOT SIGNIFICANT, FOR EXAMPLE, MAYBE FORESTRY RESOURCES OR MINERAL RESOURCES, WE WANT TO KIND OF ELIMINATE THOSE FROM THE BEGINNING. WE'LL DISCUSS THEM IN THE -- IN THE E.I.R., BUT NOT AS ONE OF THE PRIMARY TOPICS OF CONCERN.

SO THIS SLIDE PRESENTS KIND OF THE MAIN CHAPTERS THAT ARE GOING TO BE WITHIN THE DRAFT E.I.R. THAT YOU'LL SEE IN -- NEXT YEAR. IT STARTS OFF WITH A SUMMARY, AND THE SUMMARY IS USUALLY NICE BECAUSE IT HAS A BIG TABLE THAT SUMMARIZES ALL OF THE DIFFERENT IMPACTS AND THE MITIGATION MEASURES, SO WHEN YOU DO GET THAT, I THINK IT'S A REALLY NICE PLACE TO START.

THERE'S ALSO GOING TO BE AN INTRODUCTORY DISCUSSION, AND THAT'S KIND OF SIMILAR TO EVERYTHING THAT WE'VE PROVIDED TODAY, THE PURPOSE OF CEQA, THE BACKGROUND OF THE PROJECT. THERE WILL BE A PROJECT DESCRIPTION THAT KIND OF ILLUSTRATES AND BUILDS UPON WHAT LUIS HAD DESCRIBED, AND THEN KIND OF THE HEART OF THE E.I.R. IS THE IMPACT ANALYSIS; AND THE NEXT SLIDE WILL KIND OF TALK ABOUT HOW -- HOW THAT WILL BE LAID OUT.

AND THEN, YOU KNOW, LUIS HAD MENTIONED A COUPLE -- CUMULATIVE PROJECTS THAT ARE HAPPENING -- THAT ARE REASONABLY FORESEEABLE. WE CALL THEM IN CEQA PROJECTS THAT REALLY SHOULD BE LOOKED AT IN COMBINATION

WITH THIS PROJECT -- THE METRO PROJECT, THE SPORTS CENTER PROJECT, AND THEN ALL OF THE ACTIVITIES HAPPENING AT THE NORTH CAMPUS, AS WELL -- SO THOSE ARE ALL CUMULATIVE ISSUES THAT THIS E.I.R. WILL REALLY ADDRESS. WE WILL ALSO LOOK AT ALTERNATIVES TO THE PROJECT AND MITIGATION MEASURES; AND, AGAIN, THE INTENT OF BOTH OF THOSE IS TO REALLY REDUCE IMPACTS WHERE THEY CAN.

SO TO GET TO THE IMPACT ANALYSIS, THE COUNTY HAS IDENTIFIED AT THIS POINT THAT THERE ARE 13 PRIMARY AREAS WHERE WE REALLY ANTICIPATE SIGNIFICANT ENVIRONMENTAL IMPACTS TO OCCUR, WHERE WE ANTICIPATE NEEDING TO LOOK AT CLOSELY. THEY RANGE IN TOPIC HERE. WE'RE GOING TO BE LOOKING AT -- FOR ALL OF THESE TOPICS, THE SHORT-TERM IMPACTS FROM CONSTRUCTION, FROM THE DEMOLITION ACTIVITIES, ALL THE WAY THROUGH THE LONG-TERM OPERATION OF THE PROJECT FOR ALL OF THESE TOPICS. SOME OF THEM ARE GOING TO BE REALLY QUANTITATIVE STUDIES LIKE TRAFFIC, NOISE, AIR QUALITY. THOSE ARE ALL TOPICS THAT HAVE THRESHOLDS THAT ARE VERY NUMBERS-BASED AND WE RUN MODELS AND DO -- QUANTIFY ASSESSMENTS TO LOOK AT THOSE TOPICS, AND THEN THERE'S OTHERS THAT ARE MORE QUALITATIVE, LIKE AESTHETICS OR, YOU KNOW, VISUAL IMPACTS OR LAND USE, AND WE WILL BE ADDRESSING ALL OF THOSE IN THIS E.I.R.

THERE ARE SEVERAL OTHER TOPICS THAT ARE

REQUIRED BY CEQA THAT WE LOOK AT; AGAIN, LIKE I MENTIONED -- MINERAL RESOURCES, FORESTRY RESOURCES, AGRICULTURAL RESOURCES -- THAT AREN'T REALLY RESOURCES THAT WE ANTICIPATE WOULD BE IMPACTED BY THIS PROJECT. THOSE WILL BE IDENTIFIED AND ADDRESSED IN THE E.I.R., ALSO, BUT THEY'RE NOT ONE OF THE PRIMARY TOPICS.

SO JUST TO REITERATE, THE SCOPING COMMENT PERIOD GOES THROUGH -- SEPTEMBER 11TH AT 5:30 P.M. IS WHEN WE NEED TO HAVE ALL COMMENTS POSTMARKED OR E-MAILED TIME-STAMPED COMMENTS RECEIVED. THE CONTACT INFORMATION FOR LUIS IS UP HERE. IT'S ALSO IN THE NOTICE OF PREPARATION, WHICH CAN BE FOUND ON THE COUNTY'S WEBSITE. WE ARE ALSO, AS I MENTIONED, GOING TO HAVE ANOTHER COMMENT PERIOD THAT WILL BE CENTERED ON THE RELEASE OF THE DRAFT E.I.R., SO THAT WILL HAPPEN IN THE SPRING OF 2018, SO THIS ISN'T THE LAST OPPORTUNITY.

SO WITH THAT, I THINK WE WERE GOING TO OPEN IT UP TO VERBAL COMMENTS. I KNOW WE RECEIVED -- IS IT JUST ONE? WE RECEIVED ONE COMMENT CARD. I DON'T KNOW IF ANYONE ELSE IS INTERESTED IN PROVIDING VERBAL COMMENTS. IF YOU DON'T FEEL COMFORTABLE DOING THAT, YOU CAN ALSO -- OKAY.

CAN WE GET THIS GENTLEMAN HERE A CARD TO FILL OUT?

JAMES FOUNTAIN: I ALREADY FILLED ONE OUT. I

HAVE ABOUT ANOTHER EIGHT --

ADDIE FARRELL: OH, OKAY. OKAY. WELL, YOU CAN --

JAMES FOUNTAIN: CAN I VERBALIZE?

ADDIE FARRELL: YEAH, YEAH.

JAMES FOUNTAIN: OKAY.

ADDIE FARRELL: SO JUST A COUPLE ADDITIONAL THOUGHTS BEFORE I TURN OVER THE MIC, MAYBE. IT LOOKS LIKE WE ONLY HAVE ONE SPEAKER. WE WERE GOING TO TRY TO LIMIT IT TO ABOUT THREE MINUTES JUST TO BE RESPECTIVE OF EVERYBODY'S TIME. IF YOU DON'T FEEL COMFORTABLE COMING UP HERE TO SPEAK, YOU CAN ALSO HAVE ONE OF US READ YOUR COMMENT FOR YOU IF YOU'D LIKE. YOU CAN ALSO -- AFTER THE MICROPHONE PART HERE, YOU CAN GO OVER TO OUR COURT REPORTER AND SPEAK TO HER DIRECTLY AND SHE CAN DICTATE THEM ALL FOR YOU. AGAIN, WE ALSO ENCOURAGE EVERYBODY TO PROVIDE WRITTEN COMMENT, AND THIS PART OF THE MEETING ISN'T ABOUT QUESTION/ANSWER. IT'S REALLY ABOUT RECEIVING PUBLIC COMMENTS, GETTING THAT FOR THE RECORD THROUGH THE -- THROUGH THE TRANSCRIBER SO WE CAN RESPOND TO IT THROUGH THE CEQA PROCESS.

DO YOU HAVE ANYTHING ELSE TO ADD?

LUIS RAMIREZ: NO.

ADDIE FARRELL: DO YOU HAVE A QUESTION?

BOBBI BRUCE: I -- I JUST WANT TO MAKE A

COMMENT. I DON'T KNOW WHAT HE'S COVERING ON HIS EIGHT QUESTIONS OR WHATEVER; BUT IF HE DOESN'T INCLUDE WHAT I WOULD LIKE AN ANSWER TO, CAN --

ADDIE FARRELL: SURE.

BOBBI BRUCE: -- CAN WE DISCUSS THAT?

LUIS RAMIREZ: ABSOLUTELY.

ADDIE FARRELL: ABSOLUTELY.

BOBBI BRUCE: BECAUSE HE SEEMS LIKE HE'S PROBABLY GOING TO BE VERY COMPREHENSIVE. SO IF NOT --

JAMES FOUNTAIN: TOO MUCH COLLEGE.

ADDIE FARRELL: AND IF YOU WANT TO REITERATE ANY OF IT, FEEL FREE TO DO SO. WE'LL JUST --

BOBBI BRUCE: OKAY. WELL, THE ONLY QUESTION -- I CAN MAKE IT VERY SHORT -- IS DURING THIS PERIOD OF TIME WHEN YOU'RE DOING THE SCOPING, ARE YOU DOING ANY DEMOLITION AT THE SAME TIME?

ADDIE FARRELL: NO, NO. SO NOTHING --

BOBBI BRUCE: SO NOTHING IS GOING TO CHANGE OVER THERE?

ADDIE FARRELL: NOTHING HAPPENS -- NOTHING HAPPENS ON THE SOUTH CAMPUS UNTIL COMPLETION OF THE CEQA PROCESS AND UNTIL THE BOARD OF SUPERVISORS MAKES THAT WELL-EDUCATED DECISION BASED ON ALL OF THE INFORMATION ON THE RECORD AS TO WHETHER OR NOT TO APPROVE THE PROJECT, SO THAT ISN'T UNTIL, YEAH, FALL OF

2018. SO --

BOBBI BRUCE: NOTHING IS GOING TO DISAPPEAR?

ADDIE FARRELL: NO.

BOBBI BRUCE: OKAY.

ADDIE FARRELL: SO -- OKAY.

BOB THOMPSON: WELL, WHEN ARE YOU GOING TO --

JAMES FOUNTAIN: I WAS THE FIRST ONE TO RAISE MY HAND.

BOB THOMPSON: WELL, GO AHEAD AND SPEAK.

JAMES FOUNTAIN: LET ME SPEAK BECAUSE I WAS THE FIRST AND I'VE GOT NOTES.

BOBBI BRUCE: OKAY. WELL --

JAMES FOUNTAIN: THAT'S ONLY FAIR.

LUIS RAMIREZ: YES.

BOBBI BRUCE: GO AHEAD.

ADDIE FARRELL: SO WHY DON'T YOU COME, AND IF YOU COULD, JUST STATE YOUR NAME SO THAT THE COURT REPORTER -- WE WOULD APPRECIATE IT IF ANYBODY HAS A COMMENT, TO STATE YOUR NAME SO THAT WE CAN CAPTURE THAT AND MAKE SURE THAT WE'RE RESPONDING, SO --

JAMES FOUNTAIN: MY NAME IS JAMES FOUNTAIN, F-O-U-N-T-A-I-N; AND I'VE BEEN A RESIDENT OF DOWNEY ALL MY MARRIED LIFE, WHICH IS 45 YEARS, AND I'VE BEEN IN THIS NEIGHBORHOOD THE SAME AMOUNT OF TIME, AND I'VE LIVED RIGHT NEXT TO RANCHO THE ENTIRE TIME. I EVEN

WORKED ON THE RANCHO CAMPUS, AND MY DAD STUDIED POLIO HERE AS A DOCTOR IN 1953.

OKAY. HOW MANY EMPLOYEES CURRENTLY WORK AT RANCHO? LET'S JUST SAY 3,000 WORK AT RANCHO. IT'S A LOT OF PEOPLE. YOU NOTICE THEY PARK ON DOWNEY STREETS, NOT JUST THE PARKING STRUCTURE. IF YOU BRING IN 3,000 MORE EMPLOYEES, YOU'VE JUST DOUBLED THE NUMBER OF PEOPLE IN THIS PART OF DOWNEY.

ALSO, THE BIGGEST ISSUE I HAVE IS NOT THE BUILDINGS BEING NINE STORIES OR SIX STORIES. THE BIGGEST ISSUE IS INFRASTRUCTURE AS FAR AS THE ROADS, BECAUSE RIGHT NOW IMPERIAL HAS A MARKET CALLED "VALLARTA," AND EVERYBOOY NOTICES CARS CUTTING ACROSS SIX LANES OF TRAFFIC, AND WE OWE THAT TO THE PREVIOUS OWNERS OF THE -- OF THE GROCERY STORE AND THE BEACH BROTHERS. THEY SAID TO THE CITY, "OH, DON'T CONTINUE THAT ISLAND." WELL, WITHOUT THAT ISLAND DOWN THE STREET, EVERYBODY IS GOING TO BE CUTTING ACROSS.

WELL, IMAGINE 3,000 MORE EMPLOYEES EITHER COMING IN, MOST OF WHICH WOULD BE IMPERIAL BECAUSE THE OTHER STREET, GARDENDALE, IS VERY INADEQUATE. I THINK IT'S BEEN TURNED INTO A TWO-LANE ROAD NOW FROM A FOUR-LANE ROAD WITH BIKE PATHS ON IT, AND YOU'RE GOING TO OPEN UP THE GARDENOALE AND EVERYBODY'S GOING TO BE COMING IN OFF THE I-105, BECAUSE A LOT OF COUNTY

EMPLOYEES -- AND I USED TO BE ONE -- ARE COMING FROM ORANGE COUNTY. SO HOW DO THEY GET HERE FROM ORANGE COUNTY? THEY WILL PROBABLY END UP ON I-105, GET OFF AT PARAMOUNT, AND THERE'S NO LEFT-TURN LIGHTS AT THE CORNER OF GARDENDALE AND PARAMOUNT.

UTILITIES, WE'RE GOING TO PROBABLY DOUBLE THE NUMBER OF EMPLOYEES IN THIS AREA, BECAUSE WE ALREADY GOT RANCHO ON THE NORTH SIDE, SO THEY WILL PROBABLY NEED A SUBSTATION. WHAT ABOUT THOSE KEY HISTORIC BUILOINGS? WELL, WE LOST ONE AT THE MOST RECENT FIRE, THE HARRIMAN BUILDING, WHICH WAS -- THAT CIRCLE WHERE THOSE BEAUTIFUL TREES ARE.

ALSO, THE SMALL ANIMALS, YOU SAID, "WELL, TRE AGRICULTURE IS NOT IMPORTANT" OR "THE FOREST." WELL, DO YOU KNOW THAT THERE'S ALL KINDS OF LITTLE VARMINTS LIKE POSSUMS AND THESE OTHER SQUIRRELS? WHERE ARE THEY GOING TO GO WHEN YOU BUILD OUT THIS, YOU KNOW, PLACE FOR 3,000 EMPLOYEES TO PUT IN A PARKING STRUCTURE AND ALL THAT? THEY'RE GOING TO HEAD EAST RIGHT INTO WHERE WE LIVE.

SO THERE'S A LOT OF CONSIDERATIONS, BUT I THINK THE BIGGEST PROBLEM WILL BE YOUR ROAD TRAFFIC, ANO THAT -- THAT'S TKE MAIN ISSUE I -- I WANTED TO BE ADDRESSED.

AND, ALSO, IF EVERYTHING IS APPROVED BY THE

BOARD OF SUPERVISORS IN THE FALL OF 2018, HOW MANY YEARS WILL IT TAKE TO BUILD OUT THE PROJECT? ANYBODY HERE HAVE A GUESSTIMATE ON THAT?

ADDIE FARRELL: YEAH. IN AN N.O.P., WAS IT --

LUIS RAMIREZ: 30 MONTHS.

ADDIE FARRELL: 30 MONTHS.

JAMES FOUNTAIN: 30 MONTHS, SO THAT'S UNDER THREE YEARS, SO THAT WOULD MEAN PROBABLY BY 2021. IT'S ALMOST GOING TO BE SIMULTANEOUS WITH THE OPENING OF THE NEW BUILDINGS ON THE NORTH CAMPUS BECAUSE THEY'RE SUPPOSED TO BE DONE BY 2020. SO WE HAVE GOT A LOT GOING ON HERE IN SOUTHEAST DOWNEY, AND I DON'T KNOW IF WE CAN REALLY HANDLE IT BECAUSE RIGHT NOW IT'S REALLY HARD TO GET OUT. IF YOU COME OUT OF THE TRACK OVER HERE ON -- THERE'S ONLY ONE STREET THAT COMES OUT ON IMPERIAL. IT HAS A LIGHT, BUT A LOT OF TIMES TRAFFIC IS BACKED UP, SO IN THE MORNING YOU'RE GOING TO HAVE IT BACKED UP FROM THE EAST, AND IN THE EVENING YOU'RE GOING TO HAVE IT BACKED UP FROM THE WEST, SO YOU NEED TO -- LIKE THE CITY OF DOWNEY WILL PROBABLY HAVE TO PUT DOWN, YOU KNOW, "KEEP CLEAR" RIGHT ON THE PAVEMENT. YOU HAVE GOT TO WORK WITH THE CITY OF DOWNEY. YOU CAN'T IGNORE THEM EVEN THOUGH YOU'RE THE COUNTY AND YOU'RE THE NEXT GOVERNMENT UP.

AND THE SAME THING -- THE PROBLEM WITH

GARDENDALE IS YOU'VE THREE CITIES: YOU'VE GOT PARAMOUNT, SOUTH GATE, AND DOWNEY. DOWNEY HAS TWO CORNERS; PARAMOUNT HAS ONE; ANO SOUTH GATE HAS ANOTHER.

DO YOU THINK YOU CAN GET THREE CITIES TO AGREE ON ANYTHING? THAT'S A PROBLEM. THANK YOU.

LUIS RAMIREZ: THANK YOU.

ADDIE FARRELL: THANK YOU.

DID YOU WANT TO -- I CAN TAKE THAT. OH, DO YOU NEED IT? YEAH, GO AHEAD.

KATIE WRIGHT: MY NAME IS KATIE WRIGHT. I'M A RESIDENT OF DOWNEY ANO I'VE BEEN A RESIDENT OF DOWNEY SINCE 1959. WE -- I LIVE NORTH OF HERE AND WE DIDN'T GET NOTICE OF THIS MEETING. I HAPPENED TO SEE IT ON FACEBOOK, SO WHOEVER IN THE CITY OF DOWNEY THAT POSTED IT, THANK YOU VERY MUCH.

SO I'M CONCERNEO THAT THE E.I.R.'S ONLY DEALING WITH SOUTH OF IMPERIAL, AND YET THIS IS REALLY GOING TO AFFECT THOSE OF US NORTH OF IMPERIAL, ALSO. RIVES AVENUE IS SEVERELY ALREADY IMPACTED BY WHAT'S GOING ON ACROSS THE STREET. TRAFFIC HAS INCREASED TERRIBLY AND I LIVE ON RIVES AVENUE; BUT I WAS THINKING ALSO, SITTING HERE, NOW THAT BOTH OF MY GRANDSONS ARE GOING TO OLD RIVER SCHOOL AND THEN THEY'RE GOING TO BE GOING TO STAUFFER, OLD RIVER SCHOOL ROAD IS HORRENDOUS, SO IF WE'RE GOING TO ADD -- I WOULD TAKE YOUR NUMBER OF

3,000 NEW EMPLOYEES. THAT'S GOING TO BE A MAJOR ACCESS, ESPECIALLY IN THE CRIME LAB BUILDING, THAT PARCEL "B." TRAFFIC ON OLD RIVER SCHOOL ROAD IS GOING TO BE IMPACTED AND IT'S ALREADY BAD ENOUGH WITH THE TWO SCHOOLS, SO I'M HOPING THAT THE E.I.R. TAKES INTO MORE THAN JUST SOUTH OF IMPERIAL, THAT IT DOES TAKE INTO NORTH OF IMPERIAL, ALSO. THAT'S MY CONCERN.

LUIS RAMIREZ: I'LL TAKE IT.

ADDIE FARRELL: DID YOU WANT TO COME? YOU CAN FILL IT OUT. SHE JUST SPOKE. JUST MAYBE STATE YOUR NAME.

VIRGINIA JOHNSON: HI. VIRGINIA JOHNSON, 5751 MCKINLEY AVENUE.

HELLO, MR. BETANCORT.

YEAH, THIS IS A LOT TO PROCESS, OF COURSE, AND I JUST HEARD ABOUT THE MEETING. WELL, I READ IT IN THE LEGAL NOTICES, SO YEAH. WHAT I AM RIGHT NOW CONCERNED ABOUT IS THAT, OF COURSE, WHAT MR. FOUNTAIN SAID, YOD KNOW, THEY TOOK AWAY A BIKE -- I MEAN, THEY TOOK AWAY A CAR LANE ON GARDENDALE AND PUT IN A BIKE LANE, AND SO NOW WE ARE DOWN TO ONE ONE-WAY STREETS INSTEAD OF TWO ONE-WAY LANES, AND THAT -- AND ALL OF THE CITIES SURROUNDING US ARE GETTING MONEY FROM THE CALIFORNIA GOVERNMENT TO PUT IN BIKE LANES, AND SO THAT'S THE BIG THING WITH THE CITIES NOW, IS THEY WANT TO PUT IN BIKE

LANES ALL OVER, SO I'M -- I'M A LITTLE AFRAID THAT THEY MIGHT WANT TO PUT IN BIKE -- BIKE LANES ON IMPERIAL.

NOW, ON THE -- ANOTHER ONE IS MAKING A STATEMENT OVERRIDING THE DRAFT E.I.R. REPORT. THE L.A.C. BOARD CAN DO THAT AND THAT DOES CONCERN ME. THEY CAN OVERRIDE A BAD E.I.R. REPORT. THAT WOULD BE, YOU KNOW, GOOD.

AND BACK THERE ON THE SIGN, I'M WONDERING HOW MANY MEETINGS THAT WE HAVE BEEN HAVING BECAUSE IT SAYS "AUGUST 8, BUT MUST BE IN BY SEPTEMBER 3RD," AND TODAY IS THE 30TH, SO WE ACTUALLY ONLY HAVE 11 DAYS TO GET IN OUR COMMENT, SO I'M WONDERING WHY IT SAYS "AUGUST 8." WERE THERE OTHER MEETINGS AT THAT TIME LEADING UP TO THIS ONE?

THAT'S ALL I HAVE RIGHT NOW. THANK YOU.

ADDIE FARRELL: MAYBE JUST TO CLARIFY YOUR LAST QUESTION, IF I MAY --

JAMES FOUNTAIN: SPEAK LOUD.

ADDIE FARRELL: -- THE COMMENT PERIOD STARTED ON AUGUST 9 AND IT RUNS THROUGH SEPTEMBER 11TH, WHICH IS, I THINK, 32 DAYS BECAUSE OF A WEEKEND; BUT THIS IS THE FIRST AND ONLY PUBLIC MEETING THAT'S HAPPENING DURING THAT 30-DAY PERIOD.

VIRGINIA JOHNSON: THANK YOU.

BOBBI BRUCE: I DON'T BELIEVE I HAVE TO GO ALL

THE WAY UP THERE. ANYBODY CAN'T HEAR ME?

LUIS RAMIREZ: I CAN HEAR YOU.

BOBBI BRUCE: ALL RIGHT. MY NAME IS BOBBI BRUCE AND I REPRESENT THE DOWNEY HISTORICAL SOCIETY, AND I JUST WANTED TO GO ON RECORD BECAUSE I HEARD YOU SAY, "NOTHING'S GOING TO BE DEMOLISHED. NOTHING'S GOING TO BE DISAPPEARING UNTIL --" BUT I JUST WANT -- BECADSE WE HAVE BEEN TOLD THAT BEFORE ON OTHER ISSUES, AND LO AND BEHOLD, SOMETHING DISAPPEARS, SO I WANT JUST TO GO ON RECORD THAT YOU HAVE SAID, "NOTHING'S GOING TO BE DISAPPEARING. NOTHING'S GOING TO HAPPEN TO THAT AREA OVER THERE UNTIL WE GET THE COMPREHENSIVE REPORT OF WHAT YOU'RE DOING."

BECAUSE I NOTICED IT SAID 51 AREAS WERE DESIGNATED AS HISTORICAL, BUT NOW WE'RE STARTING ALL OVER AGAIN. SO IS THE BUILDING STILL GOING TO HAVE THAT "HISTORIC" DESIGNATION OR ARE WE STARTING OVER SCRATCH AND WE'RE GOING TO HAVE TO KEEP WATCHING TO SEE WHAT'S BEEN ESTABLISHED AND WHAT HASN'T? SO THAT'S JUST MY -- MY COMMENT THAT -- MY CONCERN IS THINGS HAPPEN, THINGS CHANGE, THINGS DISAPPEAR, SO --

JAMES FOUNTAIN: RIGHT, RIGHT, RIGHT.

ADDIE FARRELL: THANK YOU.

LUIS RAMIREZ: OKAY.

BOB THOMPSON: MY NAME IS -- MY NAME

BOB THOMPSON AND I'M THE PRESIDENT OF THE DOWNEY HISTORICAL SOCIETY. AND WHAT I'D LIKE TO KNOW IS WHEN ARE YOU GOING TO SHOW WHAT BUILDINGS ARE GOING TO BE DESTROYED?

JAMES FOUNTAIN: YEAH.

BOB THOMPSON: WHEN ARE YOU GOING TO DO THAT? I MEAN, HOW CAN YOU WRITE A COMMENT ON SOMETHING IF YOU DON'T KHOW WHAT'S GOING ON?

ADDIE FARRELL: SO THAT WOULD BE PART OF THE E.I.R. PROJECT DESCRIPTION.

BOBBI BRUCE: THAT'S COMING IN THE FALL?

ADDIE FARRELL: IT WILL BE IN PART OF THE DRAFT DOCUMENTS THAT COMES IN THE FALL.

BOB THOMPSON: AND THAT'S COMING WHEN?

LUIS RAMIREZ: IN THE SPRING OF 2018.

BOBBI BRUCE: IN THE SPRING?

BOB THGMPSON: OKAY. THANK YOU.

LUIS RAMIREZ: ANYBODY ELSE?

IRENE MARTINEZ: MY NAME IS IRENE MARTINEZ AND I REPRESENT -- IRENE MARTINEZ AND I DO LIVE IN THIS AREA.

OKAY. SO, ULTIMATELY, IF YOU OVERRULE ANYTHING, IT'S -- IT'S GOING TO BE THE -- THE GOVERNMENT'S DECISION TO SAY, "HEY, WE HAVE THE POWER AND WE'RE GOING TO DO WHAT WE WANT"? I MEAN, IT'S NOT

US, THAT WE'RE GOING TO, YOU KNOW, SAY, "HEY, WE DON'T WANT THIS." YOU'RE GOING TO OVERRIDE IT, RIGHT? I MEAN --

LUIS RAMIREZ: SO MAYBE YOU CAN SPEAK TO THAT. E.I.R. WILL MAKE RECOMMENDATIONS TO THE BOARD REGARDING THE PROJECT, AND THE BOARD WILL THEN TAKE THOSE RECOMMENDATIONS INTO ACCOUNT AND MAKE A DECISION AS TO WHETHER THEY MOVE FORWARD WITH THE PROJECT OR NOT.

SO RIGHT NOW, WE ARE -- AS ADDIE MENTIONED, PART OF THE -- THE PURPOSE OF THE SCOPING PERIOD IS TO GET ALL OF YOUR CONCERNS, GET THEM AS PART OF THE RECORD, SO THAT WHEN WE START DRAFTING THE E.I.R., WE MAKE SURE THAT WE ADDRESS THEM OR WE INCLUDE THEM AS PART OF THE STUDY.

IRENE MARTINEZ: OKAY. NOW, WHEN YOU START TEARING IT DOWN, YOU KNOW, A LOT OF THOSE BUILDINGS HAVE ASBESTOS AND STUFF LIKE THAT, RIGHT?

LUIS RAMIREZ: CORRECT.

IRENE MARTINEZ: SO THAT'S A CONCERN, YEAH.

LUIS RAMIREZ: SO ANY DEMOLITION THAT HAPPENS, WHEN IT HAPPENS AND IF IT HAPPENS, IT WILL HAVE TO GO THROUGH THE PROPER PROCESS WHERE YOU REMOVE THE HAZARDOUS MATERIALS USING -- YOU KNOW, CONTAIN THE STRUCTURE, REMOVE IT, DISPOSE OF IT PROPERLY, AND THEN PROCEED WITH DEMOLITION.

ADDIE FARRELL: THAT WAS ONE OF THE TOPICS LISTED, THAT THE E.I.R. WILL BE --

IRENE MARTINEZ: NO, I UNDERSTAND; BUT I JUST WANT TO MAKE SURE THAT --

LUIS RAMIREZ: YEAH. WE'RE NOT GOING TO TAKE A BULLDOZER AND START DEMOLISHING BUILDINGS WITHOUT PROPERLY ABATING THE HAZARDOUS MATERIALS.

IRENE MARTINEZ: OKAY. AND -- OKAY. BECAUSE OF ALL THE TRAFFIC THAT IS GOING TO BE CREATED AND -- I MEAN, ARE MEASURES GOING TO BE -- I MEAN, YOU KNOW, LIKE LIGHTS ARE GOING TO BE IN PLACE TO -- YOU KNOW, BECAUSE IT IS -- IT'S HORRIBLE AS IT IS NOW.

LUIS RAMIREZ: THAT'S PART OF WHAT THE TRAFFIC STUDY IS GOING TO DO IS LOOK AT THE IMPACTS THAT THE PROJECT WILL HAVE ON TRAFFIC CIRCULATION AROUND THE AREA, AND IT WILL MAKE SOME RECOMMENDATIONS AS TO WHAT MEASURES NEED TO BE IMPLEMENTED TO ADDRESS IT. RIGHT NOW, WE DON'T KNOW BECAUSE WE HAVEN'T FINISHED THE TRAFFIC STUDY, SO THERE MAY BE TRAFFIC SIGNALS THAT GET ADDED. THERE MAY NOT. WE'LL KNOW ONCE WE COMPLETE THE STUDIES, AND THAT INFORMATION WILL BE AVAILABLE WHEN THE DRAFT E.I.R. IS PUBLISHED IN THE SPRING.

YES?

BOBBI BRUCE: CAN I JUST ADD ONE MORE THING?

LUIS RAMIREZ: UH-HUH.

BOBBI BRUCE: WILL YOU BE WORKING CLOSELY WITH THE DOWNEY CITY COUNCIL IN THAT? SO IF WE HAVE ANY PERTINENT QUESTIONS OR SOMETHING, ARE YOU GOING TO KEEP THEM APPRAISED OF WHERE THIS PROJECT IS GOING, OR IS THIS JUST STRICTLY L.A. COUNTY?

LUIS RAMIREZ: NO.

BOBBI BRUCE: THEY'RE IN CHARGE OF IT AND THAT'S IT?

LUIS RAMIREZ: ACTUALLY, WE'RE WORKING REALLY CLOSELY WITH THE CITY. THE CITY IS ACTUALLY IN THE PROCESS OF UPDATING THE -- THE -- THE SPECIFIC PLAN THAT COVERS THE SOUTH CAMPUS, SO THE COUNTY IS WORKING REALLY CLOSELY WITH THE CITY PLANNING DEPARTMENT AND UPDATING THE SPECIFIC PLAN. WE HAVE BEEN WORKING REALLY CLOSELY WITH THE CITY AND THE SPORTS CENTER, THE DEVELOPMENT OF THAT PROJ- -- PROJECT, SORRY, AND WE WILL HAVE TO GO TO THE CITY PLANNING COMMISSION TO GET THE PROJECT APPROVED FOR PLANNING SINCE IT IS WITHIN THE CITY OF DOWNEY, EVEN THOUGH IT'S COUNTY-OWNED LAND. YOU KNOW, THEY WILL GIVE AN APPROVAL SAYING THAT IT MEETS WITH THE -- THE -- THAT IT COMPLIES WITH THE CITY'S GENERAL PLAN, SO WE ARE WORKING CLOSELY WITH THEM, YEAH.

BOBBI BRUCE: OKAY.

LUIS RAMIREZ: YES, SIR?

JAMES FOUNTAIN: I JUST WANT TO ADD ONE MORE

THING. SINCE I LIVE IN THE TRACT RIGHT ON THE OTHER SIDE OF IMPERIAL, THERE'S ONLY THREE STREETS IN OUR TRACT, AND SMALLWOOD IS THE ONE THAT COMES OUT TO IMPERIAL THAT HAS THE LIGHT. A LOT OF THE NEIGHBORS NOW, WE'RE ON NEIGHBORHOOD -- NEIGHBOR.COM. IT'S SOCIAL MEDIA, AND PEOPLE ARE SPEEDING THROUGH OUR TRACT AS IT IS, AND NOW THEY WANT THE CITY OF DOWNEY -- AND LISTEN TO THIS, SEAN.

SEAN ASHTON: NO, I'M ON IT.

JAMES FOUNTAIN: HE'S OUR COUNCILMAN. THEY WANT A SPEED BUMP PUT IN, A GOOD ONE, SO THE LOW RIDERS, YOU KNOW, TAKE OUT THEIR TRANSMISSION, I GUESS; BUT THE POINT IS WE MIGHT NEED SPEED BUMPS BECAUSE IF WE'VE GOT 3,000 PEOPLE COMING IN AND A NUMBER COMING IN ON THE I-105/PARAMOUNT, THEY MAY WANT TO TAKE A SHORTCUT OVER TO IMPERIAL AND COME THAT WAY BECAUSE GARDENDALE MIGHT NOT BE A GOOD STREET TO COME IN. IT'S SORT OF NARROW, SMALL, OLD, NEEDS TO BE REPAVED, SO THEY WILL COME THROUGH THE TWO STREETS OFF OF PARAMOUNT, MORRISON AND PURITAN, AND THEN GET ON SMALLWOOD, AND THERE'S A LIGHT THERE, AND THAT'S LIKE AN EASY ACCESS -- AND PEOPLE ARE DOING THAT ALREADY. YOU SEE BUSSES GOING THROUGH, TRUCKS GOING THROUGH. IT'S A SHORTCUT THROUGH OUR TRACT, AND SO I FEEL WITH 3,000 MORE EMPLOYEES, THEY'RE GOING TO FIND OUT REAL QUICK WHAT ARE THE SHORTCUTS.

LUIS RAMIREZ: AND AS I MENTIONED, THE TRAFFIC STUDY --

JAMES FOUNTAIN: YEAH.

LUIS RAMIREZ: -- WILL EVALUATE THAT.

ANY MORE COMMENTS? QUESTIONS?

SO WE'RE GOING TO GO AHEAD AND OPEN IT UP TO AN OPEN HOUSE, SO IF YOU GUYS HAVE ANY SPECIFIC DETAILED QUESTIONS, PLEASE FEEL FREE TO COME UP AND WE'LL DO OUR BEST TO -- TO ANSWER THEM, OR IF YOU WANT TO MAKE ADDITIONAL COMMENTS, YOU CAN GO SEE THE COURT REPORTER AND VOICE YOUR CONCERNS OR QUESTIONS TO HER AND SHE WILL MAKE SURE TO RECORD THEM AS PART OF THE RECORD. ALL RIGHT?

THANK YOU.

(WHEREUPON, AT 6:35 P.M. THE OPEN HOUSE COMMENCED AND THEREAFTER CONCLUDED AT 7:04 P.M.)

* * *

REPORTER'S CERTIFICATE

STATE OF CALIFORNIA)
) SS
COUNTY OF LOS ANGELES)

I, LAURA D. GUERRERO, A CERTIFIED SHORTHAND REPORTER OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, DO HEREBY CERTIFY THAT SAID PROCEEDING WAS TAKEN DOWN BY ME IN SHORTHAND AT THE TIME AND PLACE THEREIN NAMED, AND THEREAFTER REDUCED TO PRINT BY MEANS OF COMPUTER-AIDED TRANSCRIPTION UNDER MY DIRECTION, AND THE SAME IS A TRUE, CORRECT, AND COMPLETE TRANSCRIPT OF SAID PROCEEDINGS.

DATED THIS 11TH DAY OF SEPTEMBER, 2017, LONG BEACH, CALIFORNIA.

LAURA D. GUERRERO, CSR 7684

A-4 Scoping Meeting Materials

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
PUBLIC SCOPING MEETING – RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT

Name	Affiliated Organization (if applicable)	Address	City, Zip Code	Phone	E-mail
Jocelyn Olivas	BOS	100 S Santa Fe Los Angeles	90013	213 379 4321	JRiveraOlivas@bos.lacounty.gov
Bobbie E Bruce	Historical Downey Society		90241	562-862-2777	
BOB THOMPSON	DOWNEY HISTORY	DOWNEY, CA	90241	562-413-2647	RET7272@GMAIL.COM
DAVID BERMENTHAL	City of Downey				
Monica Esparza	City of Downey				
JAMES FOUNTAIN	Resident	7814 Adoree St	90242	(562) 869-0895	je.fountain@hotmail.com
VIRGINIA MR DYLAN JOHNSON	Resident SL	575 McKinley Ave	SOUTH GATE 90280	562 761 3111	THEPALM22@yahoo.com
Teresa Farris	RESIDENT	6147 ROOSEVELT + So. Gate	90280	—	—
LINDA SCHULZ	RESIDENT	12734 GROVETREE AVE. DOWNEY, CA	90242	—	—
Linda Parsons	resident	5780 Main St So Gate	90280	562 6346581	LLPHARMY@gmail.com
Katie Wright	resident	7802 Kinghel St Dny	90242	562 861-7993	katiewri@yahoo.com

August 30, 2017

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
PUBLIC SCOPING MEETING – RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT

Name	Affiliated Organization (if applicable)	Address	City, Zip Code	Phone	E-mail
Diane Garcia	any resident	12860 Morning Ave.	Downey 90242	562-862-8309	TGARCIA402@CA.RR.com
Jessica Ito	Supervisor Hahn	500 W. Temple	LA CA 90012	(213) 974 9665	JHO@BOS.LACOUNTY.GOV
Carlos Dillon		5720 monroe Ave.	South Gate, CA 90280	562 881-2185	cdillon343@AOL.com
Anthony Brower	Gedsler	520 S. Fig 90071	Los Angeles	213 327 3916	Anthony_brown@gedsler.
Pam Passow	City of Downey	7850 Quill, Downey		562-904-7238	ppassow@downeyca.org
Sean Ashton	City of Downey	12302 Orizaba Ave	Downey, CA 90242	562-862-6777	sashton@downeyca.org
Irene MARTINEZ	City of DOWNEY	7815 PURITAN ST	DOWNEY 90242	562 519-1252	VM1009@icloud.com
Hannah Chen	County of LA				hchen@ceo.lacounty.gov
Aldo Schindler	City of Downey				Aschindler@downeyca.org
Elizabeth Sipos		12832 Smallwood Ave	Downey 90242		esipos@verizon.net
JOE PEREZ	CITY OF SOUTH GATE		SOUTH GATE, CA	(562)882-2706	JPEREZ@SOGATE.ORG.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
PUBLIC SCOPING MEETING – RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT

Name	Affiliated Organization (if applicable)	Address	City, Zip Code	Phone	E-mail
Michael Ermin	LA County				mermn@dpw.lacounty.gov
Abe Betancourt	South Gate				abetancourt@sogate.org
Marion Russel					Cats4mom@hotmail

August 30, 2017

Rancho Los Amigos South Campus Project

Environmental Impact Report

Public Scoping Meeting

August 30, 2017

Scoping Meeting Agenda

- Introductions and Meeting Purpose
- Project Background / Existing Facilities
- Proposed Project Overview
- Environmental Review Process
- Receive Verbal Comments
- Open House
- Adjournment

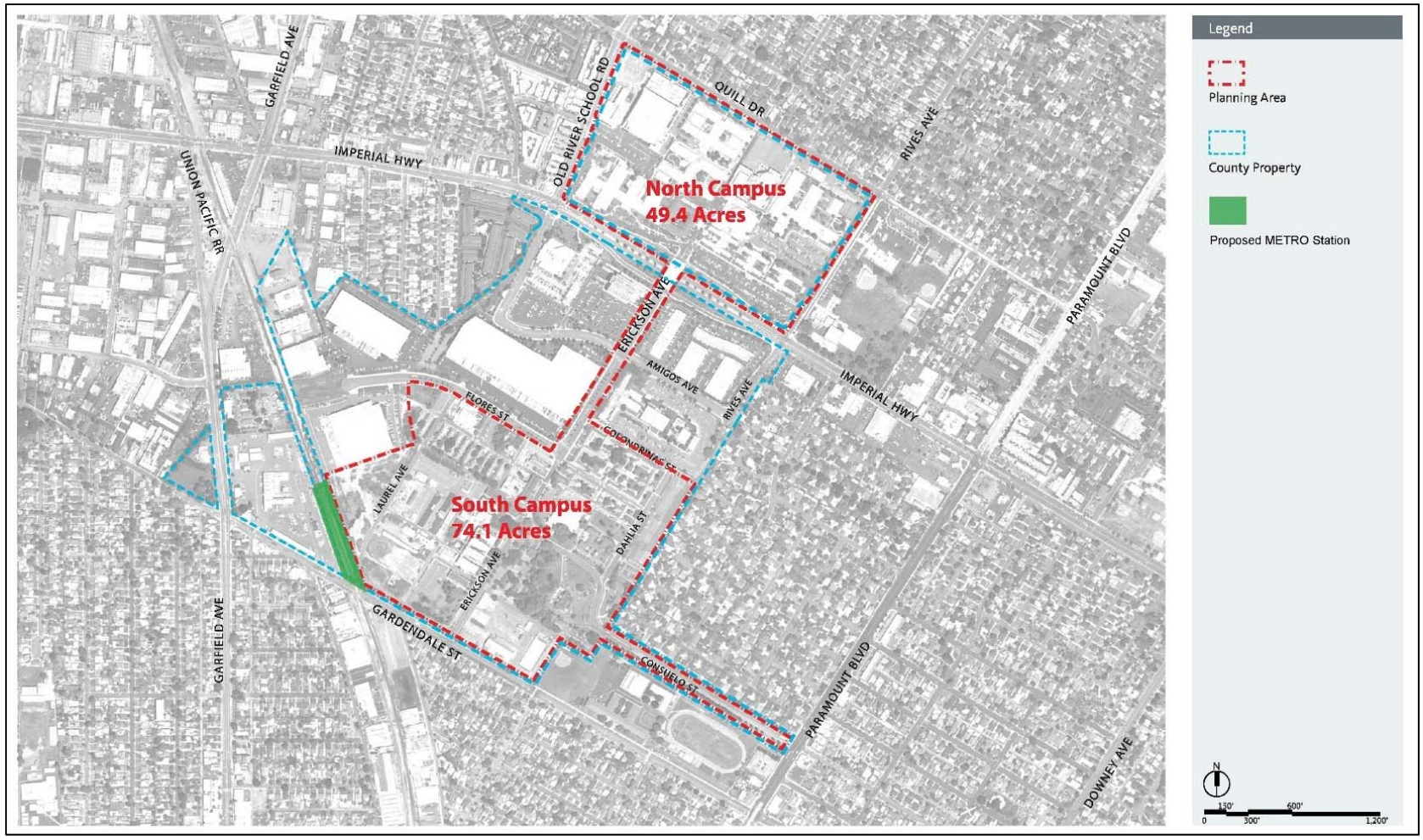
Team Introductions

- Lead Agency under CEQA
  - County of Los Angeles
  - Department of Public Works
    - Luis Ramirez, Project Manager
- Environmental Science Associates (ESA)
  - Addie Farrell, Project Manager
- Other elected officials or agencies

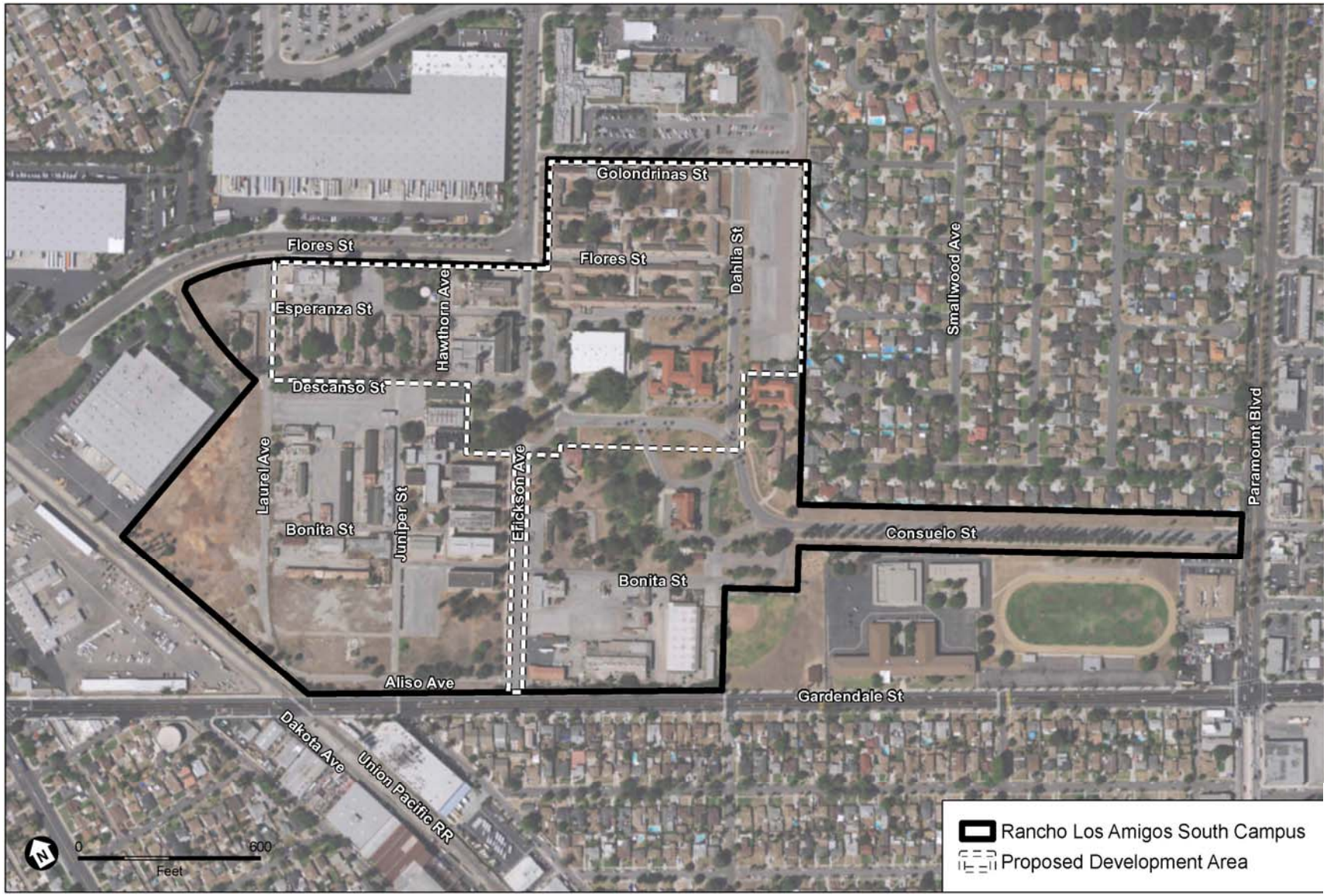
Meeting Purpose

- The County is holding this Public Scoping Meeting consistent with the California Environmental Quality Act (CEQA)
- Requesting your written input on the “scope” of the EIR for Rancho Los Amigos South Campus Project
- Presentation followed by opportunity to provide verbal comments
- Comment cards to provide written comments at this meeting or during the scoping period

Rancho Los Amigos Campus



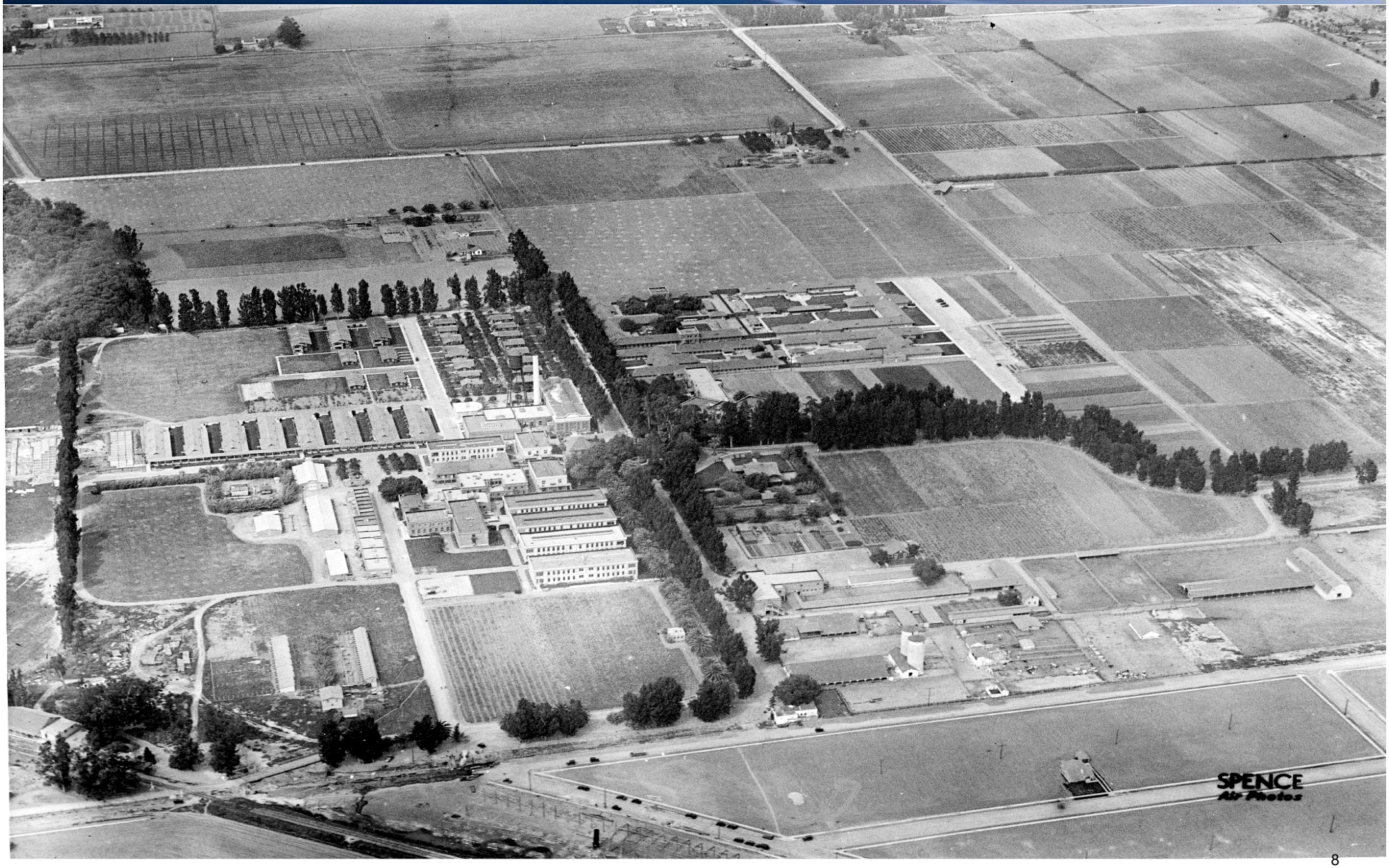
South Campus Location



South Campus History

- Property originally developed in 1888 as the L.A. County Poor Farm for injured, ill, and elderly “inmates” (patients) who could not take care of themselves and had no outside support. Able-bodies patients did farm labor to defray the cost of their stay.
- William Harriman is Superintendent from 1915 to 1952, overseeing major expansions and beginning the transition from Poor Farm to Hospital.
- Harriman successfully gets name changed to Rancho Los Amigos in 1932 to shed stigma and signal “evolving medical mission of the facility.”
- Polio treatment center established in 1952.
- Eugene Erickson becomes administrator in 1956, accelerating RLA’s transition.
- Last elements of farm, dairy, and mental health wards closed in late 1950s.
- Process of abandonment begins in 1970s/80s as virtually all activity moves to North Campus.

South Campus History (1926)



UCLA Department of Geography, Benjamin and Gladys Thomas Air Photo Archives, Spence Air Photo Collection

South Campus History

- Has been identified as a “Historic District”
  - Eligible for listing in the National Register of Historic Places
  - Listed in the California Register of Historical Resources

- As part of the environmental analysis in support of the EIR, the County will be conducting Historic District Analysis Report

Project Site Conditions



Proposed Project Background

- In 2014, the Board directed the CEO to carry out a feasibility study and preliminary space planning to consolidate the administrative functions of various County Departments including Probation Department, Internal Services Department, and the Sheriff's Department Crime Laboratory

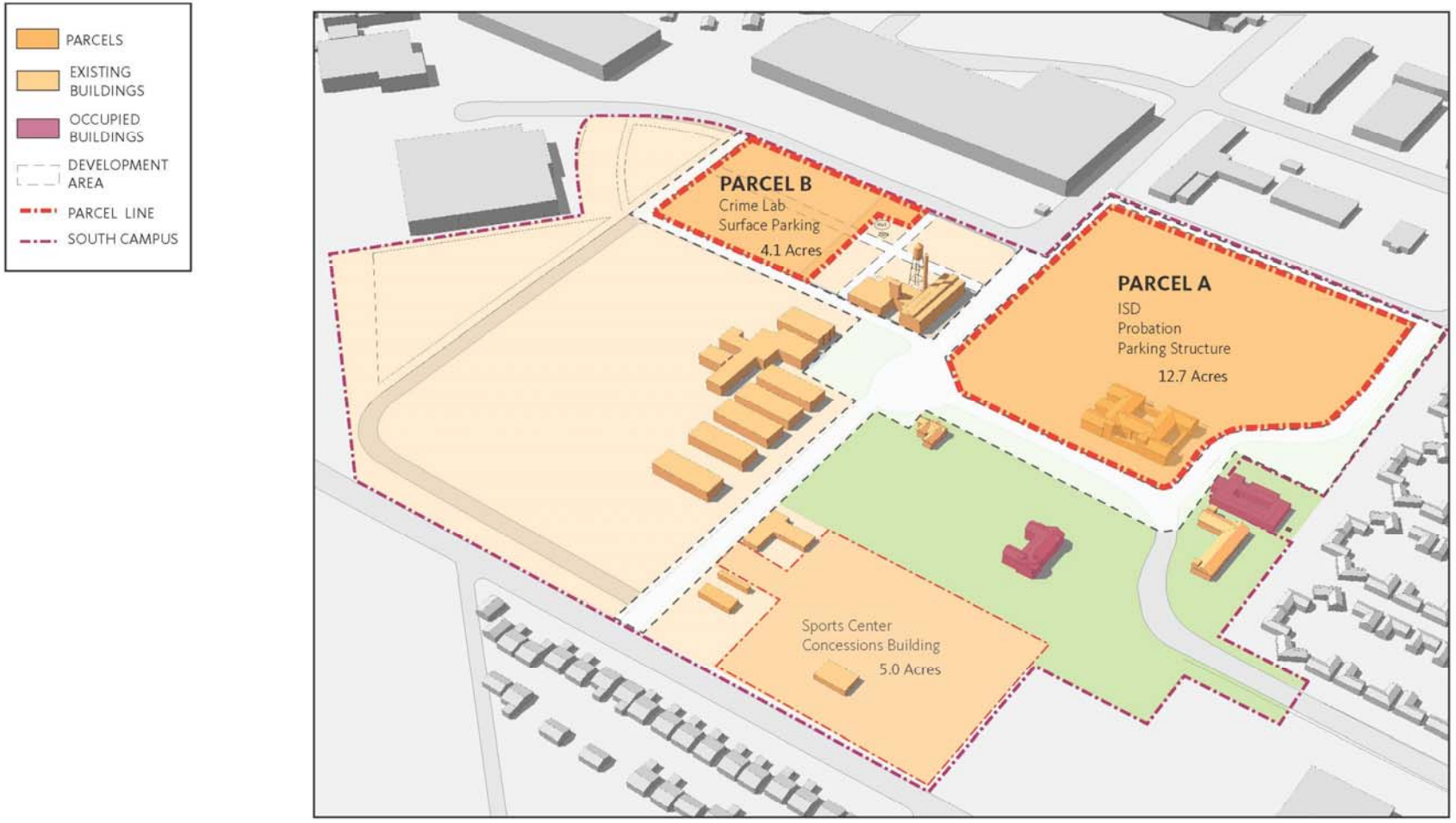
- A goal of the study was to identify cost-effective ways of relocating County Departments out of leased space and into existing County-owned facilities

Proposed Project Summary

- County proposes to develop three new County administrative buildings in the Development Area
  - Internal Services Department (ISD) Headquarters (370,000 SF, up to 6 stories, or 90-feet)
  - Probation Department Headquarters (220,000 SF, up to 6 stories, or 90-feet)
  - Sheriff's Department Crime Laboratory (60,000 SF, up to 2 stories, or 30-feet)
- Total of up to 650,000 SF
- Parking structure (up to 9 stories, or 90-feet)
- All necessary utilities and points of connection, roadways, curbs and gutters, sidewalks, medians, site structures, hydrants, vaults, manholes, substations, street lights, street signage, landscaping, and irrigation
- LEED gold rating
- The project would be delivered through a combination of Design-Build and standard design-bid-build

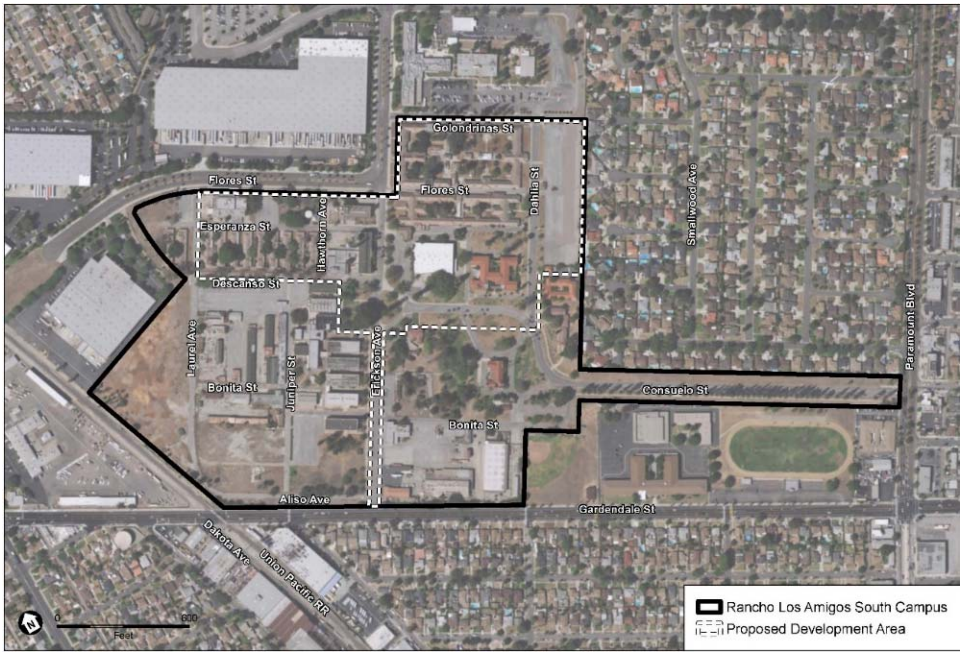
Conceptual Site Plan

Parcel Diagram



Proposed Project Demolition

- Demolition within the Development Area may include up to 51 structures
- Additional demolition on remaining South Campus may include up to 62 structures
- Some of the structures were previously identified as contributors to a Historic District



California Environmental Quality Act

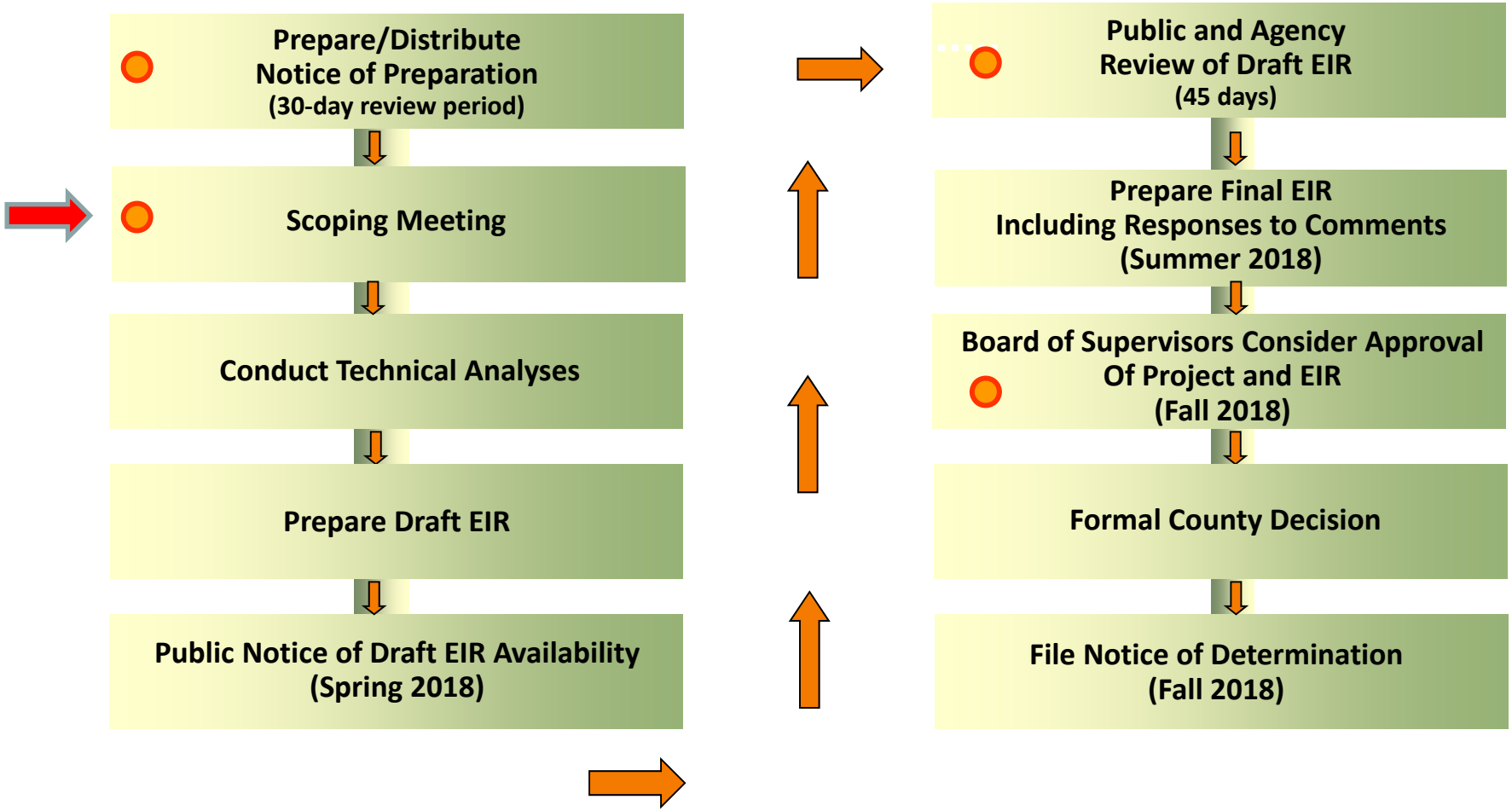
The basic purposes of CEQA are to:

- **Inform** governmental decision-makers and the public about the potential significant environmental effects of a proposed project
- **Identify** ways that environmental impacts can be avoided or reduced
- **Prevent** significant, unavoidable impacts to the environment by requiring changes in projects
- **Disclose** to the public the reasons why an agency approved the project in the manner the agency chose if significant effects are involved

The basic purpose of an EIR is to:

- **Analyze** the significant environmental effects of a proposed project
- **Identify** alternatives
- **Disclose** possible ways to reduce or avoid possible environmental impacts

CEQA EIR Process



= Opportunities for public Input

= Current step in CEQA process

EIR Scoping Process

- **PURPOSE OF NOTICE OF PREPARATION**
  - Announce that an Environmental Impact Report (EIR) has been initiated
  - Describe the proposed project
  - Provide preliminary information on potential environmental effects of the project
  - Start public scoping process
- **PURPOSE OF SCOPING PERIOD**
  - Obtain agency and public input on scope and content of the EIR
  - Identify range of alternatives, mitigation measures, and significant effects to be analyzed in the EIR
  - Eliminate issues found not to be significant from the detailed study
  - Identify potential issues early in the environmental review process
  - Bring together and resolve concerns of agencies and the public

Environmental Impact Report

- Summary
- Introductory Discussion
- Project Description
- Impact Analysis
- Cumulative Impacts
- Alternatives to the Project
- Mitigation

Environmental Impact Report

The County has identified 13 primary environmental areas where impacts are most likely to occur:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use
- Noise
- Transportation and Traffic
- Tribal Cultural Resources
- Utilities and Service Systems

Public Comments

- Scoping Period Comment Period

  August 9, 2017, to September 11, 2017

- All comments must be submitted in writing via email or regular mail to:

  Mr. Luis Ramirez
  Capital Projects Program Manager
  County of Los Angeles Department of Public Works
  Project Management Division II
  900 South Fremont Ave., 5th Floor
  Alhambra, CA 91803
  Email: luramire@dpw.lacounty.gov

- Additional comment period at the Draft EIR stage

Appendix B
Air Quality Emissions Calculations

ESA

B-1 Air Quality Emissions Calculations

Construction Emissions

Unmitigated Regional Construction Emissions

Regional Emissions Summary

Regional Emissions	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
3.2 Phase H-Campus Demolition - 2019	4.3	45.3	27.6	0.1	3.1	2.2
3.2 Phase H-Campus Demolition - 2020	4.0	42.3	27.2	0.1	2.9	2.0
3.3 Phase I-Campus Site Preparation - 2020	11.0	111.9	57.8	0.1	25.1	15.8
3.4 Phase L-Campus Soils Remediation - 2020	6.0	98.0	38.6	0.2	6.5	4.4
3.5 Phase A-ISD Demolition - 2020	4.4	53.6	28.5	0.1	5.6	2.6
3.6 Phase J-Campus Grading - 2020	4.8	57.6	33.7	0.1	5.2	3.5
3.7 Phase K-Campus Landscaping - 2020	2.2	16.6	15.8	0.0	1.3	1.1
3.8 Phase B-ISD Site Preparation - 2020	11.1	117.9	58.6	0.1	25.3	15.9
3.9 Phase C-ISD Grading/Excavation - 2020	4.7	53.7	33.2	0.1	5.1	3.5
3.10 Phase F-ISD Utils/Street Improvements - 2020	3.4	33.3	22.4	0.0	1.8	1.6
3.10 Phase F-ISD Utils/Street Improvements - 2021	3.2	31.5	22.2	0.0	1.7	1.5
3.11 Phase D-ISD Building Construction - 2020	9.8	78.5	79.8	0.2	14.0	5.4
3.11 Phase D-ISD Building Construction - 2021	8.9	71.4	75.4	0.2	13.6	5.0
3.11 Phase D-ISD Building Construction - 2022	8.2	65.8	72.0	0.2	13.3	4.8
3.12 Phase G-ISD Paving - 2021	1.8	13.0	15.3	0.0	0.8	0.7
3.13 Phase E-ISD Architectural Coatings - 2022	175.5	6.1	13.4	0.0	2.2	0.8
Overlapping Phases						
	ROG	**NOX**	**CO**	**SO2**	**Total PM10**	**Total PM2.5**
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	17.0	209.8	96.4	0.3	31.6	20.2
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	21.3	263.5	124.9	0.4	37.2	22.8
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	15.2	209.2	100.8	0.4	17.4	10.6
Phase A-ISD Demolition + Phase J Campus Grading	9.1	111.2	62.2	0.2	10.8	6.2
Phase A-ISD Demolition + Phase K-Campus Landscaping	6.6	70.2	44.3	0.1	6.9	3.7
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	13.4	134.5	74.4	0.1	26.6	17.0
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	13.2	111.8	102.2	0.3	15.8	7.0
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	12.1	102.9	97.6	0.3	15.3	6.5
Phase D-ISD Building Construction + Phase G-ISD Paving	10.7	84.4	90.7	0.3	14.4	5.7
Project Daily Maximum Emissions	**175.5**	**263.5**	**124.9**	**0.4**	**37.2**	**22.8**
SCAQMD Regional Significance Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	**Yes**	**Yes**	**No**	**No**	**No**	**No**

Air Quality Construction Analysis

Summer	Onsite Emissions						Offsite Emissions										Offsite Soil Remediation Haul Emissions									
Source	ROG	NOX	CO	SO2	Total PM10	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day						lb/day										lb/day									
3.2 Phase H-Campus Demolition - 2019	4.04	41.43	26.21	0.05	2.72	2.04	0.09	0.07	0.87	0.00	0.20	0.00	0.20	0.05	0.00	0.06	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.2 Phase H-Campus Demolition - 2020	3.81	38.44	25.88	0.05	2.56	1.89	0.08	0.06	0.79	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.3 Phase I-Campus Site Preparation - 2020	10.73	111.71	55.85	0.10	24.56	15.64	0.21	0.15	1.97	0.01	0.50	0.00	0.51	0.13	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.4 Phase L-Campus Soils Remediation - 2020	4.45	50.20	31.96	0.06	4.53	3.29	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	1.46	47.69	5.77	0.16	1.07	0.69	1.77	0.39	0.66	1.05
3.5 Phase A-ISD Demolition - 2020	3.81	38.44	25.88	0.05	4.83	2.23	0.08	0.06	0.79	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33
3.6 Phase J-Campus Grading - 2020	4.45	50.20	31.96	0.06	4.75	3.32	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16
3.7 Phase K-Campus Landscaping - 2020	2.12	16.52	14.97	0.02	1.12	1.03	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.8 Phase B-ISD Site Preparation - 2020	10.73	111.71	55.85	0.10	24.56	15.64	0.21	0.15	1.97	0.01	0.50	0.00	0.51	0.13	0.00	0.14	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13
3.9 Phase C-ISD Grading/Excavation - 2020	4.45	50.20	31.96	0.06	4.75	3.32	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08
3.10 Phase F-ISD Utils/Street Improvements - 2020	3.31	33.20	21.75	0.04	1.66	1.54	0.07	0.05	0.66	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.10 Phase F-ISD Utils/Street Improvements - 2021	3.17	31.44	21.57	0.04	1.55	1.44	0.06	0.04	0.60	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2020	4.24	38.37	33.70	0.05	2.23	2.10	5.06	39.84	46.07	0.19	11.51	0.25	11.76	3.10	0.24	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2021	3.80	34.86	33.15	0.05	1.92	1.80	4.62	36.33	42.29	0.18	11.51	0.14	11.66	3.10	0.14	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2022	3.41	31.23	32.73	0.05	1.62	1.52	4.33	34.43	39.22	0.18	11.51	0.13	11.65	3.10	0.12	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.12 Phase G-ISD Paving - 2021	1.76	12.92	14.65	0.02	0.68	0.62	0.06	0.04	0.60	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.13 Phase E-ISD Architectural Coatings - 2022	174.80	5.63	7.25	0.01	0.33	0.33	0.67	0.44	6.17	0.02	1.86	0.01	1.87	0.49	0.01	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.2 Phase H-Campus Demolition - 2019	4.3	45.3	27.6	0.1	3.1	2.2																				
3.2 Phase H-Campus Demolition - 2020	4.0	42.3	27.2	0.1	2.9	2.0																				
3.3 Phase I-Campus Site Preparation - 2020	10.9	111.9	57.8	0.1	25.1	15.8																				
3.4 Phase L-Campus Soils Remediation - 2020	6.0	98.0	38.6	0.2	6.5	4.4																				
3.5 Phase A-ISD Demolition - 2020	4.4	53.6	28.5	0.1	5.6	2.6																				
3.6 Phase J-Campus Grading - 2020	4.8	57.5	33.7	0.1	5.2	3.5																				
3.7 Phase K-Campus Landscaping - 2020	2.2	16.6	15.8	0.0	1.3	1.1																				
3.8 Phase B-ISD Site Preparation - 2020	11.1	117.9	58.6	0.1	25.3	15.9																				
3.9 Phase C-ISD Grading/Excavation - 2020	4.6	53.7	33.2	0.1	5.1	3.5																				
3.10 Phase F-ISD Utils/Street Improvements - 2020	3.4	33.3	22.4	0.0	1.8	1.6																				
3.10 Phase F-ISD Utils/Street Improvements - 2021	3.2	31.5	22.2	0.0	1.7	1.5																				
3.11 Phase D-ISD Building Construction - 2020	9.3	78.2	79.8	0.2	14.0	5.4																				
3.11 Phase D-ISD Building Construction - 2021	8.4	71.2	75.4	0.2	13.6	5.0																				
3.11 Phase D-ISD Building Construction - 2022	7.7	65.7	72.0	0.2	13.3	4.8																				
3.12 Phase G-ISD Paving - 2021	1.8	13.0	15.3	0.0	0.8	0.7																				
3.13 Phase E-ISD Architectural Coatings - 2022	175.5	6.1	13.4	0.0	2.2	0.8																				

Overlapping Phases

	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	16.9	209.8	96.4	0.3	31.6	20.2
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	21.3	263.4	124.9	0.4	37.2	22.8
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	15.1	209.1	100.8	0.4	17.4	10.6
Phase A-ISD Demolition + Phase J Campus Grading	9.1	111.2	62.2	0.2	10.8	6.2
Phase A-ISD Demolition + Phase K-Campus Landscaping	6.6	70.2	44.3	0.1	6.9	3.7
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	13.3	134.5	74.4	0.1	26.6	17.0
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	12.7	111.5	102.2	0.3	15.8	7.0
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	11.7	102.7	97.6	0.3	15.3	6.5
Phase D-ISD Building Construction + Phase G-ISD Paving	10.2	84.2	90.7	0.3	14.4	5.7
Project Daily Maximum Emissions	**175.4645**	**263.4491**	**124.9157**	**0.4209**	**37.1803**	**22.8039**

Air Quality Construction Analysis

Winter	Onsite Emissions						Offsite Emissions										Offsite Soil Remediation Haul Emissions									
	ROG	NOX	CO	SO2	Total PM10	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Source	lb/day						lb/day										lb/day									
3.2 Phase H-Campus Demolition - 2019	4.04	41.43	26.21	0.05	2.72	2.04	0.10	0.07	0.80	0.00	0.20	0.00	0.20	0.05	0.00	0.06	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.2 Phase H-Campus Demolition - 2020	3.81	38.44	25.88	0.05	2.56	1.89	0.09	0.07	0.72	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.3 Phase I-Campus Site Preparation - 2020	10.73	111.71	55.85	0.10	24.56	15.64	0.23	0.16	1.80	0.01	0.50	0.00	0.51	0.13	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.4 Phase L-Campus Soils Remediation - 2020	4.45	50.20	31.96	0.06	4.53	3.29	0.10	0.07	0.80	0.00	0.22	0.00	0.23	0.06	0.00	0.06	1.46	47.69	5.77	0.16	1.07	0.69	1.77	0.39	0.66	1.05
3.5 Phase A-ISD Demolition - 2020	3.81	38.44	25.88	0.05	4.83	2.23	0.09	0.07	0.72	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33
3.6 Phase J-Campus Grading - 2020	4.45	50.20	31.96	0.06	4.75	3.32	0.10	0.07	0.80	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16
3.7 Phase K-Campus Landscaping - 2020	2.12	16.52	14.97	0.02	1.12	1.03	0.10	0.07	0.80	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.8 Phase B-ISD Site Preparation - 2020	10.73	111.71	55.85	0.10	24.56	15.64	0.23	0.16	1.80	0.01	0.50	0.00	0.51	0.13	0.00	0.14	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13
3.9 Phase C-ISD Grading/Excavation - 2020	4.45	50.20	31.96	0.06	4.75	3.32	0.10	0.07	0.80	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08
3.10 Phase F-ISD Utils/Street Improvements - 2020	3.31	33.20	21.75	0.04	1.66	1.54	0.08	0.05	0.60	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.10 Phase F-ISD Utils/Street Improvements - 2021	3.17	31.44	21.57	0.04	1.55	1.44	0.07	0.05	0.55	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2020	4.24	38.37	33.70	0.05	2.23	2.10	5.54	40.12	44.01	0.18	11.51	0.26	11.77	3.10	0.24	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2021	3.80	34.86	33.15	0.05	1.92	1.80	5.07	36.52	40.36	0.18	11.51	0.15	11.66	3.10	0.14	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2022	3.41	31.23	32.73	0.05	1.62	1.52	4.76	34.58	37.43	0.17	11.51	0.14	11.65	3.10	0.13	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.12 Phase G-ISD Paving - 2021	1.76	12.92	14.65	0.02	0.68	0.62	0.07	0.05	0.55	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.13 Phase E-ISD Architectural Coatings - 2022	174.80	5.63	7.25	0.01	0.33	0.33	0.74	0.49	5.63	0.02	1.86	0.01	1.87	0.49	0.01	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.2 Phase H-Campus Demolition - 2019	4.3	45.3	27.5	0.1	3.1	2.2																				
3.2 Phase H-Campus Demolition - 2020	4.0	42.3	27.1	0.1	2.9	2.0																				
3.3 Phase I-Campus Site Preparation - 2020	11.0	111.9	57.7	0.1	25.1	15.8																				
3.4 Phase L-Campus Soils Remediation - 2020	6.0	98.0	38.5	0.2	6.5	4.4																				
3.5 Phase A-ISD Demolition - 2020	4.4	53.6	28.4	0.1	5.6	2.6																				
3.6 Phase J-Campus Grading - 2020	4.8	57.6	33.6	0.1	5.2	3.5																				
3.7 Phase K-Campus Landscaping - 2020	2.2	16.6	15.8	0.0	1.3	1.1																				
3.8 Phase B-ISD Site Preparation - 2020	11.1	117.9	58.4	0.1	25.3	15.9																				
3.9 Phase C-ISD Grading/Excavation - 2020	4.7	53.7	33.2	0.1	5.1	3.5																				
3.10 Phase F-ISD Utils/Street Improvements - 2020	3.4	33.3	22.4	0.0	1.8	1.6																				
3.10 Phase F-ISD Utils/Street Improvements - 2021	3.2	31.5	22.1	0.0	1.7	1.5																				
3.11 Phase D-ISD Building Construction - 2020	9.8	78.5	77.7	0.2	14.0	5.4																				
3.11 Phase D-ISD Building Construction - 2021	8.9	71.4	73.5	0.2	13.6	5.0																				
3.11 Phase D-ISD Building Construction - 2022	8.2	65.8	70.2	0.2	13.3	4.8																				
3.12 Phase G-ISD Paving - 2021	1.8	13.0	15.2	0.0	0.8	0.7																				
3.13 Phase E-ISD Architectural Coatings - 2022	175.5	6.1	12.9	0.0	2.2	0.8																				

Overlapping Phases						
	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	17.0	209.8	96.2	0.3	31.6	20.2
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	21.3	263.5	124.6	0.4	37.2	22.8
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	15.2	209.2	100.6	0.4	17.4	10.6
Phase A-ISD Demolition + Phase J Campus Grading	9.1	111.2	62.1	0.2	10.8	6.2
Phase A-ISD Demolition + Phase K-Campus Landscaping	6.6	70.2	44.2	0.1	6.9	3.7
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	13.4	134.5	74.2	0.1	26.6	17.0
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	13.2	111.8	100.1	0.3	15.8	7.0
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	12.1	102.9	95.6	0.3	15.3	6.5
Phase D-ISD Building Construction + Phase G-ISD Paving	10.7	84.4	88.7	0.3	14.4	5.7
Project Daily Maximum Emissions	**175.5414**	**263.4782**	**124.6100**	**0.4203**	**37.1803**	**22.8039**

Air Quality Construction Analysis

Localized Emissions			Onsite Emissions					
Source	NOX	CO	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
				lb/day				
3.2 Phase H-Campus Demolition - 2019	41.43	26.21	0.62	2.09	2.72	0.09	1.94	2.04
3.2 Phase H-Campus Demolition - 2020	38.44	25.88	0.62	1.94	2.56	0.09	1.80	1.89
3.3 Phase I-Campus Site Preparation - 2020	111.71	55.85	18.79	5.77	24.56	10.33	5.31	15.64
3.4 Phase L-Campus Soils Remediation - 2020	50.20	31.96	2.35	2.17	4.53	1.29	2.00	3.29
3.5 Phase A-ISD Demolition - 2020	38.44	25.88	2.90	1.94	4.83	0.44	1.80	2.23
3.6 Phase J-Campus Grading - 2020	50.20	31.96	2.57	2.17	4.75	1.32	2.00	3.32
3.7 Phase K-Campus Landscaping - 2020	16.52	14.97	0.00	1.12	1.12	0.00	1.03	1.03
3.8 Phase B-ISD Site Preparation - 2020	111.71	55.85	18.79	5.77	24.56	10.33	5.31	15.64
3.9 Phase C-ISD Grading/Excavation - 2020	50.20	31.96	2.58	2.17	4.75	1.32	2.00	3.32
3.10 Phase F-ISD Utils/Street Improvements - 2020	33.20	21.75	0.00	1.66	1.66	0.00	1.54	1.54
3.10 Phase F-ISD Utils/Street Improvements - 2021	31.44	21.57	0.00	1.55	1.55	0.00	1.44	1.44
3.11 Phase D-ISD Building Construction - 2020	38.37	33.70	0.00	2.23	2.23	0.00	2.10	2.10
3.11 Phase D-ISD Building Construction - 2021	34.86	33.15	0.00	1.92	1.92	0.00	1.80	1.80
3.11 Phase D-ISD Building Construction - 2022	31.23	32.73	0.00	1.62	1.62	0.00	1.52	1.52
3.12 Phase G-ISD Paving - 2021	12.92	14.65	0.00	0.68	0.68	0.00	0.62	0.62
3.13 Phase E-ISD Architectural Coatings - 2022	5.63	7.25	0.00	0.33	0.33	0.00	0.33	0.33
Overlapping Phases								
	NOX	**CO**	**Fugitive PM10**	**Exhaust PM10**	**Total PM10**	**Fugitive PM2.5**	**Exhaust PM2.5**	**Total PM2.5**
2020								
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	161.9	87.8	21.1	7.9	29.1	11.6	7.3	18.9
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	200.3	113.7	24.0	9.9	33.9	12.1	9.1	21.2
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	138.8	89.8	7.8	6.3	14.1	3.0	5.8	8.8
Phase A-ISD Demolition + Phase J Campus Grading	88.6	57.8	5.5	4.1	9.6	1.8	3.8	5.6
Phase A-ISD Demolition + Phase K-Campus Landscaping	55.0	40.8	2.9	3.1	6.0	0.4	2.8	3.3
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	128.2	70.8	18.8	6.9	25.7	10.3	6.3	16.7
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	71.6	55.5	0.0	3.9	3.9	0.0	3.6	3.6
2021								
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	66.3	54.7	0.0	3.5	3.5	0.0	3.2	3.2
Phase D-ISD Building Construction + Phase G-ISD Paving	47.8	47.8	0.0	2.6	2.6	0.0	2.4	2.4
Project Daily Maximum Emissions	**200.35**	**113.68**	**24.04**	**9.88**	**33.92**	**12.06**	**9.11**	**21.16**

	Campus Offroad (excluding Soil remediation)	**Campus-Soil Remediation**	Max Total
NOX	111.7	50.2	200.35
CO	55.8	32.0	113.68
PM10 DUST	18.79	2.4	24.04
PM10 EXHAUST	5.8	2.2	9.88
PM2.5 DUST	10.3	1.3	12.06
PM2.5 EXHAUST	5.3	2.0	9.11

Rancho Los Amigos-Construction - Los Angeles-South Coast County, Summer

Rancho Los Amigos-Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00
tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00
tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00
tblGrading	MaterialExported	0.00	9,206.00

tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	535.00	0.00
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00

tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.1283	41.4973	27.0766	0.0472	1.8000	2.0941	3.8941	0.2954	1.9449	2.2404	0.0000	4,647.3723	4,647.3723	1.2630	0.0000	4,678.9474
2020	19.3691	200.6188	117.3175	0.2830	62.5670	9.8878	72.4548	31.1647	9.1127	40.2773	0.0000	28,460.1466	28,460.1466	6.3382	0.0000	28,540.3209
2021	11.6499	102.6788	97.6080	0.2790	11.6795	3.6142	15.2937	3.1482	3.3802	6.5284	0.0000	28,070.6120	28,070.6120	3.1356	0.0000	28,149.0026
2022	175.4645	65.6635	71.9511	0.2343	11.5118	1.7512	13.2631	3.1038	1.6471	4.7509	0.0000	23,737.7369	23,737.7369	2.0213	0.0000	23,788.2698
Maximum	**175.4645**	**200.6188**	**117.3175**	**0.2830**	**62.5670**	**9.8878**	**72.4548**	**31.1647**	**9.1127**	**40.2773**	**0.0000**	**28,460.1466**	**28,460.1466**	**6.3382**	**0.0000**	**28,540.3209**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.1283	41.4973	27.0766	0.0472	0.8247	2.0941	2.9188	0.1478	1.9449	2.0927	0.0000	4,647.3723	4,647.3723	1.2630	0.0000	4,678.9474
2020	19.3691	200.6188	117.3175	0.2830	24.9671	9.8878	34.8549	12.3043	9.1127	21.4170	0.0000	28,460.1466	28,460.1466	6.3382	0.0000	28,540.3209
2021	11.6499	102.6788	97.6080	0.2790	11.6795	3.6142	15.2937	3.1482	3.3802	6.5284	0.0000	28,070.6120	28,070.6120	3.1356	0.0000	28,149.0026

2022	175.4645	65.6635	71.9511	0.2343	11.5118	1.7512	13.2631	3.1038	1.6471	4.7509	0.0000	23,737.7369	23,737.7369	2.0213	0.0000	23,788.2698
Maximum	**175.4645**	**200.6188**	**117.3175**	**0.2830**	**24.9671**	**9.8878**	**34.8549**	**12.3043**	**9.1127**	**21.4170**	**0.0000**	**28,460.1466**	**28,460.1466**	**6.3382**	**0.0000**	**28,540.3209**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**44.06**	**0.00**	**36.77**	**50.40**	**0.00**	**35.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.9081**	**54.3600**	**135.7286**	**0.4800**	**37.2667**	**0.5221**	**37.7887**	**9.9732**	**0.4962**	**10.4694**		**49,951.1221**	**49,951.1221**	**2.5243**	**0.0400**	**50,026.1451**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

Energy	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
Mobile	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.8985**	**54.2725**	**135.6551**	**0.4795**	**37.2667**	**0.5154**	**37.7821**	**9.9732**	**0.4896**	**10.4628**		**49,846.1584**	**49,846.1584**	**2.5223**	**0.0381**	**49,920.5576**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.04**	**0.16**	**0.05**	**0.11**	**0.00**	**1.27**	**0.02**	**0.00**	**1.34**	**0.06**	**0.00**	**0.21**	**0.21**	**0.08**	**4.80**	**0.21**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	
10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38
Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38

Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48
Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	4.0384	41.4312	26.2087	0.0450		2.0924	2.0924		1.9433	1.9433		4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**4.0384**	**41.4312**	**26.2087**	**0.0450**	**1.5988**	**2.0924**	**3.6911**	**0.2421**	**1.9433**	**2.1854**		**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	4.0384	41.4312	26.2087	0.0450		2.0924	2.0924		1.9433	1.9433	0.0000	4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**4.0384**	**41.4312**	**26.2087**	**0.0450**	**0.6235**	**2.0924**	**2.7159**	**0.0944**	**1.9433**	**2.0377**	**0.0000**	**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**1.5988**	**1.9351**	**3.5339**	**0.2421**	**1.7962**	**2.0383**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**0.6235**	**1.9351**	**2.5587**	**0.0944**	**1.7962**	**1.8906**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1767	0.0000	48.1767	26.4818	0.0000	26.4818			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1767**	**5.7710**	**53.9477**	**26.4818**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7889	0.0000	18.7889	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**18.7889**	**5.7710**	**24.5599**	**10.3279**	**5.3093**	**15.6373**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0332	0.0000	6.0332	3.3119	0.0000	3.3119			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.0332**	**2.1739**	**8.2071**	**3.3119**	**2.0000**	**5.3119**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Fugitive Dust					2.3530	0.0000	2.3530	1.2917	0.0000	1.2917			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**2.3530**	**2.1739**	**4.5269**	**1.2917**	**2.0000**	**3.2916**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4294	0.0000	7.4294	1.1249	0.0000	1.1249			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**7.4294**	**1.9351**	**9.3645**	**1.1249**	**1.7962**	**2.9211**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8975	0.0000	2.8975	0.4387	0.0000	0.4387			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**2.8975**	**1.9351**	**4.8326**	**0.4387**	**1.7962**	**2.2349**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Fugitive Dust					6.5986	0.0000	6.5986	3.3738	0.0000	3.3738			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.5986**	**2.1739**	**8.7725**	**3.3738**	**2.0000**	**5.3738**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080

Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5734	0.0000	2.5734	1.3158	0.0000	1.3158			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**2.5734**	**2.1739**	**4.7473**	**1.3158**	**2.0000**	**3.3158**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7063	16.5232	14.9726	0.0201		1.1200	1.1200		1.0304	1.0304		1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1173**	**16.5232**	**14.9726**	**0.0201**		**1.1200**	**1.1200**		**1.0304**	**1.0304**		**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7063	16.5232	14.9726	0.0201		1.1200	1.1200		1.0304	1.0304	0.0000	1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Total	**2.1173**	**16.5232**	**14.9726**	**0.0201**		**1.1200**	**1.1200**		**1.0304**	**1.0304**	**0.0000**	**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1772	0.0000	48.1772	26.4819	0.0000	26.4819			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1772**	**5.7710**	**53.9482**	**26.4819**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7891	0.0000	18.7891	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**18.7891**	**5.7710**	**24.5601**	**10.3279**	**5.3093**	**15.6373**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6172	0.0000	6.6172	3.3751	0.0000	3.3751			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.6172**	**2.1739**	**8.7911**	**3.3751**	**2.0000**	**5.3751**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5807	0.0000	2.5807	1.3163	0.0000	1.3163			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**2.5807**	**2.1739**	**4.7546**	**1.3163**	**2.0000**	**3.3163**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413

Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2397	38.3721	33.6970	0.0538		2.2341	2.2341		2.1007	2.1007		5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**4.2397**	**38.3721**	**33.6970**	**0.0538**		**2.2341**	**2.2341**		**2.1007**	**2.1007**		**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2413	37.1240	9.7268	0.0905	2.2343	0.1747	2.4090	0.6433	0.1671	0.8104		9,668.1619	9,668.1619	0.5900		9,682.9114
Worker	3.8197	2.7173	36.3411	0.0980	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,761.7368	9,761.7368	0.3078		9,769.4310
Total	**5.0609**	**39.8413**	**46.0679**	**0.1886**	**11.5117**	**0.2523**	**11.7640**	**3.1037**	**0.2386**	**3.3423**		**19,429.8987**	**19,429.8987**	**0.8978**		**19,452.3424**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2397	38.3721	33.6970	0.0538		2.2341	2.2341		2.1007	2.1007	0.0000	5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**4.2397**	**38.3721**	**33.6970**	**0.0538**		**2.2341**	**2.2341**		**2.1007**	**2.1007**	**0.0000**	**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2413	37.1240	9.7268	0.0905	2.2343	0.1747	2.4090	0.6433	0.1671	0.8104		9,668.1619	9,668.1619	0.5900		9,682.9114
Worker	3.8197	2.7173	36.3411	0.0980	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,761.7368	9,761.7368	0.3078		9,769.4310
Total	**5.0609**	**39.8413**	**46.0679**	**0.1886**	**11.5117**	**0.2523**	**11.7640**	**3.1037**	**0.2386**	**3.3423**		**19,429.8987**	**19,429.8987**	**0.8978**		**19,452.3424**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8019	34.8642	33.1504	0.0538		1.9172	1.9172		1.8026	1.8026		5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**3.8019**	**34.8642**	**33.1504**	**0.0538**		**1.9172**	**1.9172**		**1.8026**	**1.8026**		**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0608	33.8842	8.8582	0.0898	2.2344	0.0693	2.3036	0.6433	0.0663	0.7096		9,593.3340	9,593.3340	0.5652		9,607.4633
Worker	3.5579	2.4455	33.4302	0.0949	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		9,451.7898	9,451.7898	0.2785		9,458.7522
Total	**4.6187**	**36.3297**	**42.2885**	**0.1846**	**11.5118**	**0.1443**	**11.6561**	**3.1037**	**0.1353**	**3.2391**		**19,045.1238**	**19,045.1238**	**0.8437**		**19,066.2154**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8019	34.8642	33.1504	0.0538		1.9172	1.9172		1.8026	1.8026	0.0000	5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**3.8019**	**34.8642**	**33.1504**	**0.0538**		**1.9172**	**1.9172**		**1.8026**	**1.8026**	**0.0000**	**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0608	33.8842	8.8582	0.0898	2.2344	0.0693	2.3036	0.6433	0.0663	0.7096		9,593.3340	9,593.3340	0.5652		9,607.4633
Worker	3.5579	2.4455	33.4302	0.0949	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		9,451.7898	9,451.7898	0.2785		9,458.7522
Total	**4.6187**	**36.3297**	**42.2885**	**0.1846**	**11.5118**	**0.1443**	**11.6561**	**3.1037**	**0.1353**	**3.2391**		**19,045.1238**	**19,045.1238**	**0.8437**		**19,066.2154**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4125	31.2313	32.7268	0.0539		1.6180	1.6180		1.5223	1.5223		5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**3.4125**	**31.2313**	**32.7268**	**0.0539**		**1.6180**	**1.6180**		**1.5223**	**1.5223**		**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9956	32.2233	8.3812	0.0889	2.2344	0.0606	2.2950	0.6433	0.0579	0.7013		9,509.7575	9,509.7575	0.5457		9,523.4007

Worker	3.3327	2.2090	30.8430	0.0915	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		9,119.3122	9,119.3122	0.2517		9,125.6047
Total	**4.3283**	**34.4322**	**39.2243**	**0.1804**	**11.5118**	**0.1332**	**11.6450**	**3.1038**	**0.1248**	**3.2286**		**18,629.0697**	**18,629.0697**	**0.7974**		**18,649.0054**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4125	31.2313	32.7268	0.0539		1.6180	1.6180		1.5223	1.5223	0.0000	5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**3.4125**	**31.2313**	**32.7268**	**0.0539**		**1.6180**	**1.6180**		**1.5223**	**1.5223**	**0.0000**	**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9956	32.2233	8.3812	0.0889	2.2344	0.0606	2.2950	0.6433	0.0579	0.7013		9,509.7575	9,509.7575	0.5457		9,523.4007
Worker	3.3327	2.2090	30.8430	0.0915	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		9,119.3122	9,119.3122	0.2517		9,125.6047
Total	**4.3283**	**34.4322**	**39.2243**	**0.1804**	**11.5118**	**0.1332**	**11.6450**	**3.1038**	**0.1248**	**3.2286**		**18,629.0697**	**18,629.0697**	**0.7974**		**18,649.0054**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7614**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7614**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	173.9799					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8182	5.6339	7.2544	0.0119		0.3269	0.3269		0.3269	0.3269		1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**174.7980**	**5.6339**	**7.2544**	**0.0119**		**0.3269**	**0.3269**		**0.3269**	**0.3269**		**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6665	0.4418	6.1686	0.0183	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,823.8625	1,823.8625	0.0503		1,825.1209
Total	**0.6665**	**0.4418**	**6.1686**	**0.0183**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,823.8625**	**1,823.8625**	**0.0503**		**1,825.1209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	173.9799					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8182	5.6339	7.2544	0.0119		0.3269	0.3269		0.3269	0.3269	0.0000	1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**174.7980**	**5.6339**	**7.2544**	**0.0119**		**0.3269**	**0.3269**		**0.3269**	**0.3269**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6665	0.4418	6.1686	0.0183	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,823.8625	1,823.8625	0.0503		1,825.1209
Total	**0.6665**	**0.4418**	**6.1686**	**0.0183**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,823.8625**	**1,823.8625**	**0.0503**		**1,825.1209**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Unmitigated	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561

NaturalGas Unmitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4762.93	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4791.45	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8983.97	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4.53371	0.0489	0.4445	0.3734	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.3773	533.3773	0.0102	9.7800e-003	536.5469
Government Office Building	4.56085	0.0492	0.4471	0.3756	2.6800e-003		0.0340	0.0340		0.0340	0.0340		536.5712	536.5712	0.0103	9.8400e-003	539.7597

Government Office Building	8.5516	0.0922	0.8384	0.7043	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,006.0709	1,006.0709	0.0193	0.0184	1,012.0495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1903**	**1.7300**	**1.4532**	**0.0104**		**0.1315**	**0.1315**		**0.1315**	**0.1315**		**2,076.0193**	**2,076.0193**	**0.0398**	**0.0381**	**2,088.3561**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Unmitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

11.0 Vegetation

Rancho Los Amigos-Construction - Los Angeles-South Coast County, Winter

Rancho Los Amigos-Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00
tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00
tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00

tblGrading	MaterialExported	0.00	9,206.00
tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	535.00	0.00
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45

tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00
tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.1380	41.5044	27.0052	0.0471	1.8000	2.0941	3.8941	0.2954	1.9449	2.2404	0.0000	4,634.6244	4,634.6244	1.2626	0.0000	4,666.1887
2020	19.4113	200.6479	117.0118	0.2747	62.5670	9.8878	72.4548	31.1647	9.1127	40.2773	0.0000	27,615.3057	27,615.3057	6.3364	0.0000	27,695.9914
2021	12.1098	102.8750	95.6318	0.2709	11.6795	3.6164	15.2959	3.1482	3.3823	6.5305	0.0000	27,245.5533	27,245.5533	3.1559	0.0000	27,324.4503
2022	175.5414	65.8116	70.1538	0.2265	11.5118	1.7532	13.2651	3.1038	1.6490	4.7528	0.0000	22,943.0564	22,943.0564	2.0415	0.0000	22,994.0941
Maximum	**175.5414**	**200.6479**	**117.0118**	**0.2747**	**62.5670**	**9.8878**	**72.4548**	**31.1647**	**9.1127**	**40.2773**	**0.0000**	**27,615.3057**	**27,615.3057**	**6.3364**	**0.0000**	**27,695.9914**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.1380	41.5044	27.0052	0.0471	0.8247	2.0941	2.9188	0.1478	1.9449	2.0927	0.0000	4,634.6244	4,634.6244	1.2626	0.0000	4,666.1887

2020	19.4113	200.6479	117.0118	0.2747	24.9671	9.8878	34.8549	12.3043	9.1127	21.4170	0.0000	27,615.3057	27,615.3057	6.3364	0.0000	27,695.9914
2021	12.1098	102.8750	95.6318	0.2709	11.6795	3.6164	15.2959	3.1482	3.3823	6.5305	0.0000	27,245.5533	27,245.5533	3.1559	0.0000	27,324.4503
2022	175.5414	65.8116	70.1538	0.2265	11.5118	1.7532	13.2651	3.1038	1.6490	4.7528	0.0000	22,943.0564	22,943.0564	2.0415	0.0000	22,994.0941
Maximum	**175.5414**	**200.6479**	**117.0118**	**0.2747**	**24.9671**	**9.8878**	**34.8549**	**12.3043**	**9.1127**	**21.4170**	**0.0000**	**27,615.3057**	**27,615.3057**	**6.3364**	**0.0000**	**27,695.9914**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**44.06**	**0.00**	**36.77**	**50.40**	**0.00**	**35.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.5606**	**55.2537**	**130.7311**	**0.4568**	**37.2667**	**0.5247**	**37.7913**	**9.9732**	**0.4987**	**10.4719**		**47,601.4600**	**47,601.4600**	**2.5358**	**0.0400**	**47,676.7702**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
Mobile	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.5510**	**55.1662**	**130.6577**	**0.4563**	**37.2667**	**0.5180**	**37.7847**	**9.9732**	**0.4921**	**10.4653**		**47,496.4962**	**47,496.4962**	**2.5338**	**0.0381**	**47,571.1827**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.04**	**0.16**	**0.06**	**0.11**	**0.00**	**1.27**	**0.02**	**0.00**	**1.33**	**0.06**	**0.00**	**0.22**	**0.22**	**0.08**	**4.80**	**0.22**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	
10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38
Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50

Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38
Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48
Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	4.0384	41.4312	26.2087	0.0450		2.0924	2.0924		1.9433	1.9433		4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**4.0384**	**41.4312**	**26.2087**	**0.0450**	**1.5988**	**2.0924**	**3.6911**	**0.2421**	**1.9433**	**2.1854**		**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
Total	**0.0997**	**0.0732**	**0.7965**	**2.0700e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**205.5836**	**205.5836**	**7.0700e-003**		**205.7604**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	4.0384	41.4312	26.2087	0.0450		2.0924	2.0924		1.9433	1.9433	0.0000	4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**4.0384**	**41.4312**	**26.2087**	**0.0450**	**0.6235**	**2.0924**	**2.7159**	**0.0944**	**1.9433**	**2.0377**	**0.0000**	**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
Total	**0.0997**	**0.0732**	**0.7965**	**2.0700e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**205.5836**	**205.5836**	**7.0700e-003**		**205.7604**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**1.5988**	**1.9351**	**3.5339**	**0.2421**	**1.7962**	**2.0383**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**0.6235**	**1.9351**	**2.5587**	**0.0944**	**1.7962**	**1.8906**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1767	0.0000	48.1767	26.4818	0.0000	26.4818			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1767**	**5.7710**	**53.9477**	**26.4818**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7889	0.0000	18.7889	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**18.7889**	**5.7710**	**24.5599**	**10.3279**	**5.3093**	**15.6373**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Fugitive Dust					6.0332	0.0000	6.0332	3.3119	0.0000	3.3119			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.0332**	**2.1739**	**8.2071**	**3.3119**	**2.0000**	**5.3119**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586

Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3530	0.0000	2.3530	1.2917	0.0000	1.2917			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**2.3530**	**2.1739**	**4.5269**	**1.2917**	**2.0000**	**3.2916**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4294	0.0000	7.4294	1.1249	0.0000	1.1249			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**7.4294**	**1.9351**	**9.3645**	**1.1249**	**1.7962**	**2.9211**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					2.8975	0.0000	2.8975	0.4387	0.0000	0.4387			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**2.8975**	**1.9351**	**4.8326**	**0.4387**	**1.7962**	**2.2349**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5986	0.0000	6.5986	3.3738	0.0000	3.3738			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.5986**	**2.1739**	**8.7725**	**3.3738**	**2.0000**	**5.3738**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5734	0.0000	2.5734	1.3158	0.0000	1.3158			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**2.5734**	**2.1739**	**4.7473**	**1.3158**	**2.0000**	**3.3158**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	1.7063	16.5232	14.9726	0.0201		1.1200	1.1200		1.0304	1.0304		1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1173**	**16.5232**	**14.9726**	**0.0201**		**1.1200**	**1.1200**		**1.0304**	**1.0304**		**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586

Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7063	16.5232	14.9726	0.0201		1.1200	1.1200		1.0304	1.0304	0.0000	1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1173**	**16.5232**	**14.9726**	**0.0201**		**1.1200**	**1.1200**		**1.0304**	**1.0304**	**0.0000**	**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1772	0.0000	48.1772	26.4819	0.0000	26.4819			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1772**	**5.7710**	**53.9482**	**26.4819**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					18.7891	0.0000	18.7891	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**18.7891**	**5.7710**	**24.5601**	**10.3279**	**5.3093**	**15.6373**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6172	0.0000	6.6172	3.3751	0.0000	3.3751			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.6172**	**2.1739**	**8.7911**	**3.3751**	**2.0000**	**5.3751**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5807	0.0000	2.5807	1.3163	0.0000	1.3163			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**2.5807**	**2.1739**	**4.7546**	**1.3163**	**2.0000**	**3.3163**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440

Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2397	38.3721	33.6970	0.0538		2.2341	2.2341		2.1007	2.1007		5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**4.2397**	**38.3721**	**33.6970**	**0.0538**		**2.2341**	**2.2341**		**2.1007**	**2.1007**		**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2976	37.1163	10.7277	0.0881	2.2343	0.1775	2.4118	0.6433	0.1698	0.8131		9,403.7724	9,403.7724	0.6288		9,419.4929
Worker	4.2415	3.0085	33.2839	0.0923	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,191.5892	9,191.5892	0.2897		9,198.8320
Total	**5.5391**	**40.1248**	**44.0116**	**0.1804**	**11.5117**	**0.2551**	**11.7668**	**3.1037**	**0.2413**	**3.3450**		**18,595.3616**	**18,595.3616**	**0.9185**		**18,618.3249**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2397	38.3721	33.6970	0.0538		2.2341	2.2341		2.1007	2.1007	0.0000	5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**4.2397**	**38.3721**	**33.6970**	**0.0538**		**2.2341**	**2.2341**		**2.1007**	**2.1007**	**0.0000**	**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2976	37.1163	10.7277	0.0881	2.2343	0.1775	2.4118	0.6433	0.1698	0.8131		9,403.7724	9,403.7724	0.6288		9,419.4929
Worker	4.2415	3.0085	33.2839	0.0923	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,191.5892	9,191.5892	0.2897		9,198.8320
Total	**5.5391**	**40.1248**	**44.0116**	**0.1804**	**11.5117**	**0.2551**	**11.7668**	**3.1037**	**0.2413**	**3.3450**		**18,595.3616**	**18,595.3616**	**0.9185**		**18,618.3249**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	3.8019	34.8642	33.1504	0.0538		1.9172	1.9172		1.8026	1.8026		5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**3.8019**	**34.8642**	**33.1504**	**0.0538**		**1.9172**	**1.9172**		**1.8026**	**1.8026**		**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1137	33.8142	9.7988	0.0873	2.2344	0.0715	2.3059	0.6433	0.0684	0.7117		9,330.3588	9,330.3588	0.6023		9,345.4173
Worker	3.9576	2.7070	30.5652	0.0893	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		8,899.6841	8,899.6841	0.2619		8,906.2312

Total	**5.0713**	**36.5212**	**40.3641**	**0.1767**	**11.5118**	**0.1465**	**11.6583**	**3.1037**	**0.1374**	**3.2412**		**18,230.0429**	**18,230.0429**	**0.8642**		**18,251.6484**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8019	34.8642	33.1504	0.0538		1.9172	1.9172		1.8026	1.8026	0.0000	5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**3.8019**	**34.8642**	**33.1504**	**0.0538**		**1.9172**	**1.9172**		**1.8026**	**1.8026**	**0.0000**	**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1137	33.8142	9.7988	0.0873	2.2344	0.0715	2.3059	0.6433	0.0684	0.7117		9,330.3588	9,330.3588	0.6023		9,345.4173
Worker	3.9576	2.7070	30.5652	0.0893	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		8,899.6841	8,899.6841	0.2619		8,906.2312
Total	**5.0713**	**36.5212**	**40.3641**	**0.1767**	**11.5118**	**0.1465**	**11.6583**	**3.1037**	**0.1374**	**3.2412**		**18,230.0429**	**18,230.0429**	**0.8642**		**18,251.6484**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4125	31.2313	32.7268	0.0539		1.6180	1.6180		1.5223	1.5223		5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**3.4125**	**31.2313**	**32.7268**	**0.0539**		**1.6180**	**1.6180**		**1.5223**	**1.5223**		**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0455	32.1357	9.2754	0.0865	2.2344	0.0626	2.2970	0.6433	0.0598	0.7032		9,247.4628	9,247.4628	0.5812		9,261.9922
Worker	3.7171	2.4447	28.1516	0.0862	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		8,586.9265	8,586.9265	0.2364		8,592.8375
Total	**4.7625**	**34.5804**	**37.4270**	**0.1726**	**11.5118**	**0.1352**	**11.6470**	**3.1038**	**0.1267**	**3.2305**		**17,834.3892**	**17,834.3892**	**0.8176**		**17,854.8297**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	3.4125	31.2313	32.7268	0.0539		1.6180	1.6180		1.5223	1.5223	0.0000	5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**3.4125**	**31.2313**	**32.7268**	**0.0539**		**1.6180**	**1.6180**		**1.5223**	**1.5223**	**0.0000**	**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0455	32.1357	9.2754	0.0865	2.2344	0.0626	2.2970	0.6433	0.0598	0.7032		9,247.4628	9,247.4628	0.5812		9,261.9922
Worker	3.7171	2.4447	28.1516	0.0862	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		8,586.9265	8,586.9265	0.2364		8,592.8375
Total	**4.7625**	**34.5804**	**37.4270**	**0.1726**	**11.5118**	**0.1352**	**11.6470**	**3.1038**	**0.1267**	**3.2305**		**17,834.3892**	**17,834.3892**	**0.8176**		**17,854.8297**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7614**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7614**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Archit. Coating	173.9799					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8182	5.6339	7.2544	0.0119		0.3269	0.3269		0.3269	0.3269		1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**174.7980**	**5.6339**	**7.2544**	**0.0119**		**0.3269**	**0.3269**		**0.3269**	**0.3269**		**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7434	0.4889	5.6303	0.0172	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,717.3853	1,717.3853	0.0473		1,718.5675

Total	**0.7434**	**0.4889**	**5.6303**	**0.0172**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,717.3853**	**1,717.3853**	**0.0473**		**1,718.5675**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	173.9799					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8182	5.6339	7.2544	0.0119		0.3269	0.3269		0.3269	0.3269	0.0000	1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**174.7980**	**5.6339**	**7.2544**	**0.0119**		**0.3269**	**0.3269**		**0.3269**	**0.3269**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7434	0.4889	5.6303	0.0172	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,717.3853	1,717.3853	0.0473		1,718.5675
Total	**0.7434**	**0.4889**	**5.6303**	**0.0172**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,717.3853**	**1,717.3853**	**0.0473**		**1,718.5675**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Unmitigated	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
NaturalGas Unmitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Land Use	kBTU/yr	lb/day											lb/day				
Government Office Building	4762.93	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4791.45	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8983.97	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Government Office Building	4.53371	0.0489	0.4445	0.3734	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.3773	533.3773	0.0102	9.7800e-003	536.5469
Government Office Building	4.56085	0.0492	0.4471	0.3756	2.6800e-003		0.0340	0.0340		0.0340	0.0340		536.5712	536.5712	0.0103	9.8400e-003	539.7597
Government Office Building	8.5516	0.0922	0.8384	0.7043	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,006.0709	1,006.0709	0.0193	0.0184	1,012.0495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1903**	**1.7300**	**1.4532**	**0.0104**		**0.1315**	**0.1315**		**0.1315**	**0.1315**		**2,076.0193**	**2,076.0193**	**0.0398**	**0.0381**	**2,088.3561**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Unmitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

11.0 Vegetation

Haul Truck Emission Calculations

Phase	Total Trucks	Total One-Way Haul Truck Trips	Avg. Daily Truck Trips (In/Out)	Hauling Days	Distance to Disposal Site
Phase H-Campus Demolition	758	1,516	18	87	20
Phase I-Campus Site Preparation	0	0	0	0	20
Phase L-Campus Soils Remediation-Export[1]	444	888	60	15	80
Phase L-Campus Soils Remediation-Import	88	176	12	15	20
Phase A-ISD Demolition	2,876	5,752	80	142	20
Phase J-Campus Grading	767	1,534	154	10	5
Phase K-Campus Landscaping	0.00	0.00	0.00	0.00	20
Phase B-ISD Site Preparation	160.00	320.00	32.00	10.00	20
Phase C-ISD Grading/Excavation	356.50	714.00	72.00	10.00	5
Phase F-ISD Utils/Street Improvements	0.00	0.00	0.00	0.00	20
Phase D-ISD Building Construction	0.00	0.00	0.00	0.00	20
Phase G-ISD Paving	0.00	0.00	0.00	0.00	20
Phase E-ISD Architectural Coatings	0.00	0.00	0.00	0.00	20

EMISSION FACTORS	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5
Construction Year	g/mile									
2019	0.16556	4.81184	0.63384	0.01426	0.09637	0.07809	0.17446	0.03496	0.07471	0.10967
2020	0.13169	4.29215	0.51905	0.01399	0.09637	0.06249	0.15885	0.03496	0.05978	0.09474

EMISSIONS	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5
Phase	lb/day									
Phase H-Campus Demolition	0.131	3.819	0.503	0.011	0.076	0.062	0.138	0.028	0.059	0.087
Phase I-Campus Site Preparation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase L-Campus Soils Remediation-Export1	1.394	45.420	5.493	0.148	1.020	0.661	1.681	0.370	0.633	1.003
Phase L-Campus Soils Remediation-Import	0.070	2.271	0.275	0.007	0.051	0.033	0.084	0.018	0.032	0.050
Phase A-ISD Demolition	0.465	15.140	1.831	0.049	0.340	0.220	0.560	0.123	0.211	0.334
Phase J-Campus Grading	0.224	7.286	0.881	0.024	0.164	0.106	0.270	0.059	0.101	0.161
Phase K-Campus Landscaping	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase B-ISD Site Preparation	0.186	6.056	0.732	0.020	0.136	0.088	0.224	0.049	0.084	0.134
Phase C-ISD Grading/Excavation	0.105	3.406	0.412	0.011	0.076	0.050	0.126	0.028	0.047	0.075
Phase F-ISD Utils/Street Improvements	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase D-ISD Building Construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase G-ISD Paving	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase E-ISD Architectural Coatings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5
Phase	lb/day									
Phase H-Campus Demolition	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
Phase I-Campus Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase L-Campus Soils Remediation	1.46	47.69	5.77	0.16	1.07	0.69	1.77	0.39	0.66	1.05
Phase A-ISD Demolition	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33
Phase J-Campus Grading	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16
Phase K-Campus Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase B-ISD Site Preparation	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13
Phase C-ISD Grading/Excavation	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08
Phase F-ISD Utils/Street Improvements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase D-ISD Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase G-ISD Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase E-ISD Architectural Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1 Distance to SCAQMD boundary

Region	SOUTH COAST AQMD
Vehicle Category	HHDT
Model Year	Aggregated
Fuel	DSL

Row Labels	Sum of ROG_RUNEX	um of NOx_RUNE	um of CO_RUNE	um of SOx_RUNE	m of PM10_PMT	m of PM10_PMB	m of PM10_RUN	m of PM2_5_PMT	m of PM2_5_PME	m of PM2_5_RUN	um of CO2_RUNE	um of CH4_RUNE	um of N2O_RUNE
2019	1.66E-01	4.81E+00	6.34E-01	1.43E-02	3.55E-02	6.09E-02	7.81E-02	8.87E-03	2.61E-02	7.47E-02	1.51E+03	7.69E-03	2.37E-01
2020	1.32E-01	4.29E+00	5.19E-01	1.40E-02	3.55E-02	6.09E-02	6.25E-02	8.87E-03	2.61E-02	5.98E-02	1.48E+03	6.12E-03	2.33E-01
2021	1.07E-01	3.85E+00	4.43E-01	1.37E-02	3.55E-02	6.09E-02	5.22E-02	8.87E-03	2.61E-02	4.99E-02	1.45E+03	4.97E-03	2.28E-01
2022	6.63E-02	3.29E+00	3.07E-01	1.33E-02	3.55E-02	6.09E-02	2.96E-02	8.87E-03	2.61E-02	2.84E-02	1.41E+03	3.08E-03	2.21E-01
Grand Total	**4.71E-01**	**1.62E+01**	**1.90E+00**	**5.53E-02**	**1.42E-01**	**2.43E-01**	**2.22E-01**	**3.55E-02**	**1.04E-01**	**2.13E-01**	**5.85E+03**	**2.19E-02**	**9.19E-01**

Year	ROG	NOX	CO	Sox	PM10 TW	PM10 BW	PM10 Exh	PM2.5 TW	PM2.5 BW	PM2.5 Exh	CO2	CH4	N2O
	g/mile										g/mi		
2019	1.66E-01	4.81E+00	6.34E-01	1.43E-02	3.55E-02	6.09E-02	7.81E-02	8.87E-03	2.61E-02	7.47E-02	1.51E+03	7.69E-03	2.37E-01
2020	1.32E-01	4.29E+00	5.19E-01	1.40E-02	3.55E-02	6.09E-02	6.25E-02	8.87E-03	2.61E-02	5.98E-02	1.48E+03	6.12E-03	2.33E-01
2021	1.07E-01	3.85E+00	4.43E-01	1.37E-02	3.55E-02	6.09E-02	5.22E-02	8.87E-03	2.61E-02	4.99E-02	1.45E+03	4.97E-03	2.28E-01
2022	6.63E-02	3.29E+00	3.07E-01	1.33E-02	3.55E-02	6.09E-02	2.96E-02	8.87E-03	2.61E-02	2.84E-02	1.41E+03	3.08E-03	2.21E-01

Year	ROG	NOX	CO	Sox	M10 Fugitive Dus	PM10 Exhuast	Total PM10	M2.5 Fugitive Du	PM2.5 Exhuast	Total PM2.5	CO2	CH4	N2O
	g/mile										g/mi		
2019	1.66E-01	4.81E+00	6.34E-01	1.43E-02	9.64E-02	7.81E-02	1.74E-01	3.50E-02	7.47E-02	1.10E-01	1.51E+03	7.69E-03	2.37E-01
2020	1.32E-01	4.29E+00	5.19E-01	1.40E-02	9.64E-02	6.25E-02	1.59E-01	3.50E-02	5.98E-02	9.47E-02	1.48E+03	6.12E-03	2.33E-01
2021	1.07E-01	3.85E+00	4.43E-01	1.37E-02	9.64E-02	5.22E-02	1.49E-01	3.50E-02	4.99E-02	8.49E-02	1.45E+03	4.97E-03	2.28E-01
2022	6.63E-02	3.29E+00	3.07E-01	1.33E-02	9.64E-02	2.96E-02	1.26E-01	3.50E-02	2.84E-02	6.33E-02	1.41E+03	3.08E-03	2.21E-01

Mitigated Regional Construction Emissions

Regional Emissions Summary

Regional Emissions	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
3.2 Phase H-Campus Demolition - 2019	0.8	6.2	29.4	0.1	1.0	0.3
3.2 Phase H-Campus Demolition - 2020	0.8	6.2	29.3	0.1	1.0	0.3
3.3 Phase I-Campus Site Preparation - 2020	1.4	5.4	56.1	0.1	19.5	10.6
3.4 Phase L-Campus Soils Remediation - 2020	2.3	51.1	39.6	0.2	4.4	2.5
3.5 Phase A-ISD Demolition - 2020	1.1	17.5	30.6	0.1	3.7	0.9
3.6 Phase J-Campus Grading - 2020	1.1	10.7	34.8	0.1	3.2	1.6
3.7 Phase K-Campus Landscaping - 2020	0.8	3.2	16.1	0.0	0.3	0.1
3.8 Phase B-ISD Site Preparation - 2020	1.6	11.5	56.8	0.1	19.7	10.8
3.9 Phase C-ISD Grading/Excavation - 2020	1.0	6.8	34.3	0.1	3.0	1.6
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.5	2.1	23.9	0.0	0.2	0.1
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.5	2.1	23.9	0.0	0.2	0.1
3.11 Phase D-ISD Building Construction - 2020	6.8	45.7	81.5	0.2	12.0	3.6
3.11 Phase D-ISD Building Construction - 2021	6.2	42.0	77.7	0.2	11.9	3.5
3.11 Phase D-ISD Building Construction - 2022	5.9	40.0	74.5	0.2	11.9	3.4
3.12 Phase G-ISD Paving - 2021	0.9	1.3	17.9	0.0	0.2	0.1
3.13 Phase E-ISD Architectural Coatings - 2022	73.9	1.0	13.5	0.0	1.9	0.5
Overlapping Phases						
	ROG	**NOX**	**CO**	**SO2**	**Total PM10**	**Total PM2.5**
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	3.8	56.5	95.7	0.3	23.9	13.1
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	4.9	74.0	126.3	0.4	27.6	14.0
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	4.5	79.3	105.0	0.4	11.3	5.0
Phase A-ISD Demolition + Phase J Campus Grading	2.2	28.2	65.4	0.2	6.9	2.5
Phase A-ISD Demolition + Phase K-Campus Landscaping	1.9	20.8	46.7	0.1	4.0	1.0
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	2.4	14.7	72.9	0.1	19.9	10.9
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	7.3	47.8	105.5	0.3	12.2	3.7
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	6.8	44.1	101.5	0.3	12.1	3.6
Phase D-ISD Building Construction + Phase G-ISD Paving	7.1	43.3	95.6	0.3	12.1	3.5
Project Daily Maximum Emissions	**73.88**	**79.26**	**126.31**	**0.42**	**27.64**	**14.03**
SCAQMD Regional Significance Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Air Quality Construction Analysis

Summer	Onsite Emissions						Offsite Emissions									Offsite Soil Remediation Haul Emissions									
	ROG	NOX	CO	SO2	Total PM10	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Source	lb/day						lb/day										lb/day									
3.2 Phase H-Campus Demolition - 2019	0.54	2.33	27.99	0.05	0.70	0.17	0.09	0.07	0.87	0.00	0.20	0.00	0.20	0.05	0.00	0.06	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.2 Phase H-Campus Demolition - 2020	0.54	2.33	27.99	0.05	0.70	0.17	0.08	0.06	0.79	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.3 Phase I-Campus Site Preparation - 2020	1.22	5.27	54.09	0.10	18.95	10.49	0.21	0.15	1.97	0.01	0.50	0.00	0.51	0.13	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.4 Phase L-Campus Soils Remediation - 2020	0.76	3.30	33.00	0.06	2.45	1.39	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	1.46	47.69	5.77	0.16	1.07	0.69	1.77	0.39	0.66	1.05
3.5 Phase A-ISD Demolition - 2020	0.54	2.33	27.99	0.05	2.97	0.51	0.08	0.06	0.79	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33
3.6 Phase J-Campus Grading - 2020	0.76	3.30	33.00	0.06	2.68	1.42	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16
3.7 Phase K-Campus Landscaping - 2020	0.71	3.17	15.24	0.02	0.03	0.03	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.8 Phase B-ISD Site Preparation - 2020	1.22	5.27	54.09	0.10	18.95	10.49	0.21	0.15	1.97	0.01	0.50	0.00	0.51	0.13	0.00	0.14	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13
3.9 Phase C-ISD Grading/Excavation - 2020	0.76	3.30	33.00	0.06	2.68	1.42	0.09	0.07	0.88	0.00	0.22	0.00	0.23	0.06	0.00	0.06	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.46	2.00	23.28	0.04	0.06	0.06	0.07	0.05	0.66	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.46	2.00	23.28	0.04	0.06	0.06	0.06	0.04	0.60	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2020	1.25	5.60	35.46	0.05	0.25	0.25	5.06	39.84	46.07	0.19	11.51	0.25	11.76	3.10	0.24	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2021	1.17	5.48	35.36	0.05	0.22	0.22	4.62	36.33	42.29	0.18	11.51	0.14	11.66	3.10	0.14	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2022	1.12	5.39	35.32	0.05	0.20	0.20	4.33	34.43	39.22	0.18	11.51	0.13	11.65	3.10	0.12	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.12 Phase G-ISD Paving - 2021	0.79	1.22	17.30	0.02	0.04	0.04	0.06	0.04	0.60	0.00	0.17	0.00	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.13 Phase E-ISD Architectural Coatings - 2022	73.14	0.52	7.33	0.01	0.02	0.02	0.67	0.44	6.17	0.02	1.86	0.01	1.87	0.49	0.01	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Regional Emissions	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
3.2 Phase H-Campus Demolition - 2019	0.8	6.2	29.4	0.1	1.0	0.3
3.2 Phase H-Campus Demolition - 2020	0.8	6.2	29.3	0.1	1.0	0.3
3.3 Phase I-Campus Site Preparation - 2020	1.4	5.4	56.1	0.1	19.5	10.6
3.4 Phase L-Campus Soils Remediation - 2020	2.3	51.1	39.6	0.2	4.4	2.5
3.5 Phase A-ISD Demolition - 2020	1.1	17.5	30.6	0.1	3.7	0.9
3.6 Phase J-Campus Grading - 2020	1.1	10.7	34.8	0.1	3.2	1.6
3.7 Phase K-Campus Landscaping - 2020	0.8	3.2	16.1	0.0	0.3	0.1
3.8 Phase B-ISD Site Preparation - 2020	1.6	11.5	56.8	0.1	19.7	10.8
3.9 Phase C-ISD Grading/Excavation - 2020	1.0	6.8	34.3	0.1	3.0	1.6
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.5	2.1	23.9	0.0	0.2	0.1
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.5	2.0	23.9	0.0	0.2	0.1
3.11 Phase D-ISD Building Construction - 2020	6.3	45.4	81.5	0.2	12.0	3.6
3.11 Phase D-ISD Building Construction - 2021	5.8	41.8	77.7	0.2	11.9	3.5
3.11 Phase D-ISD Building Construction - 2022	5.4	39.8	74.5	0.2	11.8	3.4
3.12 Phase G-ISD Paving - 2021	0.9	1.3	17.9	0.0	0.2	0.1
3.13 Phase E-ISD Architectural Coatings - 2022	73.8	1.0	13.5	0.0	1.9	0.5

CalEEMod Values QC, does not include additional Haul

Overlapping Phases

	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	3.7	56.5	95.7	0.3	23.9	13.1
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	4.8	74.0	126.3	0.4	27.6	14.0
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	4.5	79.2	105.0	0.4	11.3	5.0
Phase A-ISD Demolition + Phase J Campus Grading	2.2	28.2	65.4	0.2	6.9	2.5
Phase A-ISD Demolition + Phase K-Campus Landscaping	1.9	20.8	46.7	0.1	4.0	1.0
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	2.4	14.7	72.9	0.1	19.9	10.9
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	6.8	47.5	105.5	0.3	12.2	3.7
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	6.3	43.9	101.5	0.3	12.1	3.6
Phase D-ISD Building Construction + Phase G-ISD Paving	6.6	43.1	95.6	0.3	12.1	3.5
Project Daily Maximum Emissions	**73.8076**	**79.2409**	**126.3146**	**0.4209**	**27.6358**	**14.0339**

Air Quality Construction Analysis

Winter	Onsite Emissions						Offsite Emissions								Offsite Soil Remediation Haul Emissions								
Source	ROG	NOX	CO	SO2	Total PM10	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day						lb/day									lb/day									
3.2 Phase H-Campus Demolition - 2019	0.54	2.33	27.99	0.05	0.70	0.17	0.10	0.07	0.80	0.00	0.20	0.20	0.05	0.00	0.06	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.2 Phase H-Campus Demolition - 2020	0.54	2.33	27.99	0.05	0.70	0.17	0.09	0.07	0.72	0.00	0.20	0.20	0.05	0.00	0.05	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
3.3 Phase I-Campus Site Preparation - 2020	1.22	5.27	54.09	0.10	18.95	10.49	0.23	0.16	1.80	0.01	0.50	0.51	0.13	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.4 Phase L-Campus Soils Remediation - 2020	0.76	3.30	33.00	0.06	2.45	1.39	0.10	0.07	0.80	0.00	0.22	0.23	0.06	0.00	0.06	1.46	47.69	5.77	0.16	1.07	0.69	1.77	0.39	0.66	1.05
3.5 Phase A-ISD Demolition - 2020	0.54	2.33	27.99	0.05	2.97	0.51	0.09	0.07	0.72	0.00	0.20	0.20	0.05	0.00	0.05	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33
3.6 Phase J-Campus Grading - 2020	0.76	3.30	33.00	0.06	2.68	1.42	0.10	0.07	0.80	0.00	0.22	0.23	0.06	0.00	0.06	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16
3.7 Phase K-Campus Landscaping - 2020	0.71	3.17	15.24	0.02	0.03	0.03	0.10	0.07	0.80	0.00	0.22	0.23	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.8 Phase B-ISD Site Preparation - 2020	1.22	5.27	54.09	0.10	18.95	10.49	0.23	0.16	1.80	0.01	0.50	0.51	0.13	0.00	0.14	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13
3.9 Phase C-ISD Grading/Excavation - 2020	0.76	3.30	33.00	0.06	2.68	1.42	0.10	0.07	0.80	0.00	0.22	0.23	0.06	0.00	0.06	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.46	2.00	23.28	0.04	0.06	0.06	0.08	0.05	0.60	0.00	0.17	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.46	2.00	23.28	0.04	0.06	0.06	0.07	0.05	0.55	0.00	0.17	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2020	1.25	5.60	35.46	0.05	0.25	0.25	5.54	40.12	44.01	0.18	11.51	11.77	3.10	0.24	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2021	1.17	5.48	35.36	0.05	0.22	0.22	5.07	36.52	40.36	0.18	11.51	11.66	3.10	0.14	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.11 Phase D-ISD Building Construction - 2022	1.12	5.39	35.32	0.05	0.20	0.20	4.76	34.58	37.43	0.17	11.51	11.65	3.10	0.13	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.12 Phase G-ISD Paving - 2021	0.79	1.22	17.30	0.02	0.04	0.04	0.07	0.05	0.55	0.00	0.17	0.17	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.13 Phase E-ISD Architectural Coatings - 2022	73.14	0.52	7.33	0.01	0.02	0.02	0.74	0.49	5.63	0.02	1.86	1.87	0.49	0.01	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Regional Emissions	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
3.2 Phase H-Campus Demolition - 2019	0.8	6.2	29.3	0.1	1.0	0.3
3.2 Phase H-Campus Demolition - 2020	0.8	6.2	29.2	0.1	1.0	0.3
3.3 Phase I-Campus Site Preparation - 2020	1.4	5.4	55.9	0.1	19.5	10.6
3.4 Phase L-Campus Soils Remediation - 2020	2.3	51.1	39.6	0.2	4.4	2.5
3.5 Phase A-ISD Demolition - 2020	1.1	17.5	30.5	0.1	3.7	0.9
3.6 Phase J-Campus Grading - 2020	1.1	10.7	34.7	0.1	3.2	1.6
3.7 Phase K-Campus Landscaping - 2020	0.8	3.2	16.0	0.0	0.3	0.1
3.8 Phase B-ISD Site Preparation - 2020	1.6	11.5	56.6	0.1	19.7	10.8
3.9 Phase C-ISD Grading/Excavation - 2020	1.0	6.8	34.2	0.1	3.0	1.6
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.5	2.1	23.9	0.0	0.2	0.1
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.5	2.1	23.8	0.0	0.2	0.1
3.11 Phase D-ISD Building Construction - 2020	6.8	45.7	79.5	0.2	12.0	3.6
3.11 Phase D-ISD Building Construction - 2021	6.2	42.0	75.7	0.2	11.9	3.5
3.11 Phase D-ISD Building Construction - 2022	5.9	40.0	72.7	0.2	11.9	3.4
3.12 Phase G-ISD Paving - 2021	0.9	1.3	17.8	0.0	0.2	0.1
3.13 Phase E-ISD Architectural Coatings - 2022	73.9	1.0	13.0	0.0	1.9	0.5

CalEEMod Values QC, does not include additional Haul Truck

Overlapping Phases

	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	3.8	56.5	95.5	0.3	23.9	13.1
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	4.9	74.0	126.0	0.4	27.6	14.0
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	4.5	79.3	104.8	0.4	11.3	5.0
Phase A-ISD Demolition + Phase J Campus Grading	2.2	28.2	65.2	0.2	6.9	2.5
Phase A-ISD Demolition + Phase K-Campus Landscaping	1.9	20.8	46.6	0.1	4.0	1.0
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	2.4	14.7	72.7	0.1	19.9	10.9
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	7.3	47.8	103.4	0.3	12.2	3.7
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	6.8	44.1	99.6	0.3	12.1	3.6
Phase D-ISD Building Construction + Phase G-ISD Paving	7.1	43.3	93.6	0.3	12.1	3.5
Project Daily Maximum Emissions	**73.8845**	**79.2612**	**126.0089**	**0.4203**	**27.6358**	**14.0339**

Air Quality Construction Analysis

Localized Emissions	Onsite Emissions									
Source	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day									
3.2 Phase H-Campus Demolition - 2019	0.54	2.33	27.99	0.05	0.62	0.07	0.70	0.09	0.07	0.17
3.2 Phase H-Campus Demolition - 2020	0.54	2.33	27.99	0.05	0.62	0.07	0.70	0.09	0.07	0.17
3.3 Phase I-Campus Site Preparation - 2020	1.22	5.27	54.09	0.10	18.79	0.16	18.95	10.33	0.16	10.49
3.4 Phase L-Campus Soils Remediation - 2020	0.76	3.30	33.00	0.06	2.35	0.10	2.45	1.29	0.10	1.39
3.5 Phase A-ISD Demolition - 2020	0.54	2.33	27.99	0.05	2.90	0.07	2.97	0.44	0.07	0.51
3.6 Phase J-Campus Grading - 2020	0.76	3.30	33.00	0.06	2.57	0.10	2.68	1.32	0.10	1.42
3.7 Phase K-Campus Landscaping - 2020	0.71	3.17	15.24	0.02	0.00	0.03	0.03	0.00	0.03	0.03
3.8 Phase B-ISD Site Preparation - 2020	1.22	5.27	54.09	0.10	18.79	0.16	18.95	10.33	0.16	10.49
3.9 Phase C-ISD Grading/Excavation - 2020	0.76	3.30	33.00	0.06	2.58	0.10	2.68	1.32	0.10	1.42
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.46	2.00	23.28	0.04	0.00	0.06	0.06	0.00	0.06	0.06
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.46	2.00	23.28	0.04	0.00	0.06	0.06	0.00	0.06	0.06
3.11 Phase D-ISD Building Construction - 2020	1.25	5.60	35.46	0.05	0.00	0.25	0.25	0.00	0.25	0.25
3.11 Phase D-ISD Building Construction - 2021	1.17	5.48	35.36	0.05	0.00	0.22	0.22	0.00	0.22	0.22
3.11 Phase D-ISD Building Construction - 2022	1.12	5.39	35.32	0.05	0.00	0.20	0.20	0.00	0.20	0.20
3.12 Phase G-ISD Paving - 2021	0.79	1.22	17.30	0.02	0.00	0.04	0.04	0.00	0.04	0.04
3.13 Phase E-ISD Architectural Coatings - 2022	17.52	0.52	7.33	0.01	0.00	0.02	0.02	0.00	0.02	0.02
Localized Emissions	**ROG**	**NOX**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**Total PM10**	**Fugitive PM2.5**	**Exhaust PM2.5**	**Total PM2.5**
Overlapping Phases										
3.2 Phase H-Campus Demolition - 2019	0.5	2.3	28.0	0.0	0.6	0.1	0.7	0.1	0.1	0.2
3.2 Phase H-Campus Demolition - 2020	0.5	2.3	28.0	0.0	0.6	0.1	0.7	0.1	0.1	0.2
3.3 Phase I-Campus Site Preparation - 2020	1.2	5.3	54.1	0.1	18.8	0.2	19.0	10.3	0.2	10.5
3.4 Phase L-Campus Soils Remediation - 2020	0.8	3.3	33.0	0.1	2.4	0.1	2.5	1.3	0.1	1.4
3.5 Phase A-ISD Demolition - 2020	0.5	2.3	28.0	0.0	2.9	0.1	3.0	0.4	0.1	0.5
3.6 Phase J-Campus Grading - 2020	0.8	3.3	33.0	0.1	2.6	0.1	2.7	1.3	0.1	1.4
3.7 Phase K-Campus Landscaping - 2020	0.7	3.2	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8 Phase B-ISD Site Preparation - 2020	1.2	5.3	54.1	0.1	18.8	0.2	19.0	10.3	0.2	10.5
3.9 Phase C-ISD Grading/Excavation - 2020	0.8	3.3	33.0	0.1	2.6	0.1	2.7	1.3	0.1	1.4
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.5	2.0	23.3	0.0	0.0	0.1	0.1	0.0	0.1	0.1
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.5	2.0	23.3	0.0	0.0	0.1	0.1	0.0	0.1	0.1
3.11 Phase D-ISD Building Construction - 2020	1.3	5.6	35.5	0.1	0.0	0.2	0.2	0.0	0.2	0.2
3.11 Phase D-ISD Building Construction - 2021	1.2	5.5	35.4	0.1	0.0	0.2	0.2	0.0	0.2	0.2
3.11 Phase D-ISD Building Construction - 2022	1.1	5.4	35.3	0.1	0.0	0.2	0.2	0.0	0.2	0.2
3.12 Phase G-ISD Paving - 2021	0.8	1.2	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.13 Phase E-ISD Architectural Coatings - 2022	17.5	0.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overlapping Phases										
	ROG	**NOX**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**Total PM10**	**Fugitive PM2.5**	**Exhaust PM2.5**	**Total PM2.5**
2020										
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	2.0	8.6	87.1	0.2	21.1	0.3	21.4	11.6	0.3	11.9
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	2.5	10.9	115.1	0.2	24.0	0.3	24.4	12.1	0.3	12.4
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	2.1	8.9	94.0	0.2	7.8	0.3	8.1	3.0	0.3	3.3
Phase A-ISD Demolition + Phase J Campus Grading	1.3	5.6	61.0	0.1	5.5	0.2	5.6	1.8	0.2	1.9
Phase A-ISD Demolition + Phase K-Campus Landscaping	1.2	5.5	43.2	0.1	2.9	0.1	3.0	0.4	0.1	0.5
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	1.9	8.4	69.3	0.1	18.8	0.2	19.0	10.3	0.2	10.5
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	1.7	7.6	58.7	0.1	0.0	0.3	0.3	0.0	0.3	0.3
2021										
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	1.6	7.5	58.6	0.1	0.0	0.3	0.3	0.0	0.3	0.3
Phase D-ISD Building Construction + Phase G-ISD Paving	2.0	6.7	52.7	0.1	0.0	0.3	0.3	0.0	0.3	0.3
Project Daily Maximum Emissions	**17.5169**	**10.9048**	**115.0824**	**0.2063**	**24.0394**	**0.3355**	**24.3749**	**12.0583**	**0.3355**	**12.3938**

	ISD	Campus Offroad (excluding	Campus-Soil Remediation	Max Total	
NOX	2.3	5.3	3.3	10.90	TRUE
CO	28.0	54.1	33.0	115.08	TRUE
PM10 DUST	2.9	18.79	2.4	24.04	TRUE
PM10 EXHAUST	0.1	0.2	0.1	0.34	TRUE
PM2.5 DUST	0.4	10.3	1.3	12.06	TRUE
PM2.5 EXHAUST	0.1	0.2	0.1	0.34	TRUE

Rancho Los Amigos-Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00
tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00

tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00
tblGrading	MaterialExported	0.00	9,206.00
tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	535.00	0.00

tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00
tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.1283	41.4973	27.0766	0.0472	1.8000	2.0941	3.8941	0.2954	1.9449	2.2404	0.0000	4,647.3723	4,647.3723	1.2630	0.0000	4,678.9474
2020	19.3691	200.6188	117.3175	0.2830	62.5670	9.8878	72.4548	31.1647	9.1127	40.2773	0.0000	28,460.1466	28,460.1466	6.3382	0.0000	28,540.3209
2021	11.6499	102.6788	97.6080	0.2790	11.6795	3.6142	15.2937	3.1482	3.3802	6.5284	0.0000	28,070.6120	28,070.6120	3.1356	0.0000	28,149.0026
2022	18.8827	65.6635	71.9511	0.2343	11.5118	1.7512	13.2631	3.1038	1.6471	4.7509	0.0000	23,737.7369	23,737.7369	2.0213	0.0000	23,788.2698
Maximum	**19.3691**	**200.6188**	**117.3175**	**0.2830**	**62.5670**	**9.8878**	**72.4548**	**31.1647**	**9.1127**	**40.2773**	**0.0000**	**28,460.1466**	**28,460.1466**	**6.3382**	**0.0000**	**28,540.3209**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					

2019	0.6287	2.4006	28.8619	0.0472	0.8247	0.0736	0.8983	0.1478	0.0734	0.2212	0.0000	4,647.3723	4,647.3723	1.2630	0.0000	4,678.9474
2020	6.8445	47.4978	118.7165	0.2830	24.9671	0.5648	25.3103	12.3043	0.5510	12.6470	0.0000	28,460.1466	28,460.1466	6.3382	0.0000	28,540.3209
2021	6.6426	43.8564	101.5369	0.2790	11.6795	0.4312	12.1107	3.1482	0.4222	3.5704	0.0000	28,070.6120	28,070.6120	3.1356	0.0000	28,149.0026
2022	18.1834	39.8195	74.5427	0.2343	11.5118	0.3367	11.8486	3.1038	0.3283	3.4321	0.0000	23,737.7369	23,737.7369	2.0213	0.0000	23,788.2698
Maximum	**18.1834**	**47.4978**	**118.7165**	**0.2830**	**24.9671**	**0.5648**	**25.3103**	**12.3043**	**0.5510**	**12.6470**	**0.0000**	**28,460.1466**	**28,460.1466**	**6.3382**	**0.0000**	**28,540.3209**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**40.22**	**67.46**	**-3.09**	**0.00**	**44.06**	**91.89**	**52.18**	**50.40**	**91.45**	**63.06**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.9081**	**54.3600**	**135.7286**	**0.4800**	**37.2667**	**0.5221**	**37.7887**	**9.9732**	**0.4962**	**10.4694**		**49,951.1221**	**49,951.1221**	**2.5243**	**0.0400**	**50,026.1451**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
Mobile	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.8985**	**54.2725**	**135.6551**	**0.4795**	**37.2667**	**0.5154**	**37.7821**	**9.9732**	**0.4896**	**10.4628**		**49,846.1584**	**49,846.1584**	**2.5223**	**0.0381**	**49,920.5576**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.04**	**0.16**	**0.05**	**0.11**	**0.00**	**1.27**	**0.02**	**0.00**	**1.34**	**0.06**	**0.00**	**0.21**	**0.21**	**0.08**	**4.80**	**0.21**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	
10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38
Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38
Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48
Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	4.0384	41.4312	26.2087	0.0450		2.0924	2.0924		1.9433	1.9433		4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**4.0384**	**41.4312**	**26.2087**	**0.0450**	**1.5988**	**2.0924**	**3.6911**	**0.2421**	**1.9433**	**2.1854**		**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	0.5387	2.3345	27.9940	0.0450		0.0718	0.0718		0.0718	0.0718	0.0000	4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**0.5387**	**2.3345**	**27.9940**	**0.0450**	**0.6235**	**0.0718**	**0.6954**	**0.0944**	**0.0718**	**0.1662**	**0.0000**	**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**1.5988**	**1.9351**	**3.5339**	**0.2421**	**1.7962**	**2.0383**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	0.5387	2.3345	27.9940	0.0450		0.0718	0.0718		0.0718	0.0718	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**0.5387**	**2.3345**	**27.9940**	**0.0450**	**0.6235**	**0.0718**	**0.6954**	**0.0944**	**0.0718**	**0.1662**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1767	0.0000	48.1767	26.4818	0.0000	26.4818			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1767**	**5.7710**	**53.9477**	**26.4818**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7889	0.0000	18.7889	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	1.2162	5.2703	54.0893	0.0993		0.1622	0.1622		0.1622	0.1622	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**1.2162**	**5.2703**	**54.0893**	**0.0993**	**18.7889**	**0.1622**	**18.9511**	**10.3279**	**0.1622**	**10.4901**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0332	0.0000	6.0332	3.3119	0.0000	3.3119			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.0332**	**2.1739**	**8.2071**	**3.3119**	**2.0000**	**5.3119**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3530	0.0000	2.3530	1.2917	0.0000	1.2917			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**2.3530**	**0.1015**	**2.4545**	**1.2917**	**0.1015**	**1.3932**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Fugitive Dust					7.4294	0.0000	7.4294	1.1249	0.0000	1.1249			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**7.4294**	**1.9351**	**9.3645**	**1.1249**	**1.7962**	**2.9211**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8975	0.0000	2.8975	0.4387	0.0000	0.4387			0.0000			0.0000
Off-Road	0.5387	2.3345	27.9940	0.0450		0.0718	0.0718		0.0718	0.0718	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**0.5387**	**2.3345**	**27.9940**	**0.0450**	**2.8975**	**0.0718**	**2.9693**	**0.4387**	**0.0718**	**0.5105**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5986	0.0000	6.5986	3.3738	0.0000	3.3738			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.5986**	**2.1739**	**8.7725**	**3.3738**	**2.0000**	**5.3738**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5734	0.0000	2.5734	1.3158	0.0000	1.3158			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**2.5734**	**0.1015**	**2.6750**	**1.3158**	**0.1015**	**1.4173**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080

Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7063	16.5232	14.9726	0.0201		1.1200	1.1200		1.0304	1.0304		1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1173**	**16.5232**	**14.9726**	**0.0201**		**1.1200**	**1.1200**		**1.0304**	**1.0304**		**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2980	3.1745	15.2362	0.0201		0.0329	0.0329		0.0329	0.0329	0.0000	1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7090**	**3.1745**	**15.2362**	**0.0201**		**0.0329**	**0.0329**		**0.0329**	**0.0329**	**0.0000**	**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1772	0.0000	48.1772	26.4819	0.0000	26.4819			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597

Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1772**	**5.7710**	**53.9482**	**26.4819**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7891	0.0000	18.7891	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	1.2162	5.2703	54.0893	0.0993		0.1622	0.1622		0.1622	0.1622	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**1.2162**	**5.2703**	**54.0893**	**0.0993**	**18.7891**	**0.1622**	**18.9513**	**10.3279**	**0.1622**	**10.4901**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2071**	**0.1473**	**1.9703**	**5.3100e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**529.2508**	**529.2508**	**0.0167**		**529.6680**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6172	0.0000	6.6172	3.3751	0.0000	3.3751			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.6172**	**2.1739**	**8.7911**	**3.3751**	**2.0000**	**5.3751**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5807	0.0000	2.5807	1.3163	0.0000	1.3163			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**2.5807**	**0.1015**	**2.6822**	**1.3163**	**0.1015**	**1.4178**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**		**0.0616**	**0.0616**		**0.0616**	**0.0616**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**		**0.0616**	**0.0616**		**0.0616**	**0.0616**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	4.2397	38.3721	33.6970	0.0538		2.2341	2.2341		2.1007	2.1007		5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**4.2397**	**38.3721**	**33.6970**	**0.0538**		**2.2341**	**2.2341**		**2.1007**	**2.1007**		**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2413	37.1240	9.7268	0.0905	2.2343	0.1747	2.4090	0.6433	0.1671	0.8104		9,668.1619	9,668.1619	0.5900		9,682.9114
Worker	3.8197	2.7173	36.3411	0.0980	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,761.7368	9,761.7368	0.3078		9,769.4310

Total	**5.0609**	**39.8413**	**46.0679**	**0.1886**	**11.5117**	**0.2523**	**11.7640**	**3.1037**	**0.2386**	**3.3423**		**19,429.8987**	**19,429.8987**	**0.8978**		**19,452.3424**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2522	5.6041	35.4608	0.0538		0.2495	0.2495		0.2495	0.2495	0.0000	5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**1.2522**	**5.6041**	**35.4608**	**0.0538**		**0.2495**	**0.2495**		**0.2495**	**0.2495**	**0.0000**	**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2413	37.1240	9.7268	0.0905	2.2343	0.1747	2.4090	0.6433	0.1671	0.8104		9,668.1619	9,668.1619	0.5900		9,682.9114
Worker	3.8197	2.7173	36.3411	0.0980	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,761.7368	9,761.7368	0.3078		9,769.4310
Total	**5.0609**	**39.8413**	**46.0679**	**0.1886**	**11.5117**	**0.2523**	**11.7640**	**3.1037**	**0.2386**	**3.3423**		**19,429.8987**	**19,429.8987**	**0.8978**		**19,452.3424**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8019	34.8642	33.1504	0.0538		1.9172	1.9172		1.8026	1.8026		5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**3.8019**	**34.8642**	**33.1504**	**0.0538**		**1.9172**	**1.9172**		**1.8026**	**1.8026**		**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0608	33.8842	8.8582	0.0898	2.2344	0.0693	2.3036	0.6433	0.0663	0.7096		9,593.3340	9,593.3340	0.5652		9,607.4633
Worker	3.5579	2.4455	33.4302	0.0949	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		9,451.7898	9,451.7898	0.2785		9,458.7522
Total	**4.6187**	**36.3297**	**42.2885**	**0.1846**	**11.5118**	**0.1443**	**11.6561**	**3.1037**	**0.1353**	**3.2391**		**19,045.1238**	**19,045.1238**	**0.8437**		**19,066.2154**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1733	5.4792	35.3644	0.0538		0.2240	0.2240		0.2240	0.2240	0.0000	5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**1.1733**	**5.4792**	**35.3644**	**0.0538**		**0.2240**	**0.2240**		**0.2240**	**0.2240**	**0.0000**	**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0608	33.8842	8.8582	0.0898	2.2344	0.0693	2.3036	0.6433	0.0663	0.7096		9,593.3340	9,593.3340	0.5652		9,607.4633
Worker	3.5579	2.4455	33.4302	0.0949	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		9,451.7898	9,451.7898	0.2785		9,458.7522
Total	**4.6187**	**36.3297**	**42.2885**	**0.1846**	**11.5118**	**0.1443**	**11.6561**	**3.1037**	**0.1353**	**3.2391**		**19,045.1238**	**19,045.1238**	**0.8437**		**19,066.2154**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4125	31.2313	32.7268	0.0539		1.6180	1.6180		1.5223	1.5223		5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**3.4125**	**31.2313**	**32.7268**	**0.0539**		**1.6180**	**1.6180**		**1.5223**	**1.5223**		**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9956	32.2233	8.3812	0.0889	2.2344	0.0606	2.2950	0.6433	0.0579	0.7013		9,509.7575	9,509.7575	0.5457		9,523.4007
Worker	3.3327	2.2090	30.8430	0.0915	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		9,119.3122	9,119.3122	0.2517		9,125.6047
Total	**4.3283**	**34.4322**	**39.2243**	**0.1804**	**11.5118**	**0.1332**	**11.6450**	**3.1038**	**0.1248**	**3.2286**		**18,629.0697**	**18,629.0697**	**0.7974**		**18,649.0054**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1215	5.3872	35.3184	0.0539		0.2035	0.2035		0.2035	0.2035	0.0000	5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**1.1215**	**5.3872**	**35.3184**	**0.0539**		**0.2035**	**0.2035**		**0.2035**	**0.2035**	**0.0000**	**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9956	32.2233	8.3812	0.0889	2.2344	0.0606	2.2950	0.6433	0.0579	0.7013		9,509.7575	9,509.7575	0.5457		9,523.4007

Worker	3.3327	2.2090	30.8430	0.0915	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		9,119.3122	9,119.3122	0.2517		9,125.6047
Total	**4.3283**	**34.4322**	**39.2243**	**0.1804**	**11.5118**	**0.1332**	**11.6450**	**3.1038**	**0.1248**	**3.2286**		**18,629.0697**	**18,629.0697**	**0.7974**		**18,649.0054**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7614**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7863**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Archit. Coating	17.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8182	5.6339	7.2544	0.0119		0.3269	0.3269		0.3269	0.3269		1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**18.2161**	**5.6339**	**7.2544**	**0.0119**		**0.3269**	**0.3269**		**0.3269**	**0.3269**		**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6665	0.4418	6.1686	0.0183	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,823.8625	1,823.8625	0.0503		1,825.1209
Total	**0.6665**	**0.4418**	**6.1686**	**0.0183**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,823.8625**	**1,823.8625**	**0.0503**		**1,825.1209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	0.5151	7.3297	0.0119		0.0159	0.0159		0.0159	0.0159	0.0000	1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**17.5169**	**0.5151**	**7.3297**	**0.0119**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6665	0.4418	6.1686	0.0183	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,823.8625	1,823.8625	0.0503		1,825.1209
Total	**0.6665**	**0.4418**	**6.1686**	**0.0183**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,823.8625**	**1,823.8625**	**0.0503**		**1,825.1209**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Unmitigated	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
NaturalGas Unmitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4762.93	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4791.45	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8983.97	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4.53371	0.0489	0.4445	0.3734	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.3773	533.3773	0.0102	9.7800e-003	536.5469
Government Office Building	4.56085	0.0492	0.4471	0.3756	2.6800e-003		0.0340	0.0340		0.0340	0.0340		536.5712	536.5712	0.0103	9.8400e-003	539.7597
Government Office Building	8.5516	0.0922	0.8384	0.7043	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,006.0709	1,006.0709	0.0193	0.0184	1,012.0495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1903**	**1.7300**	**1.4532**	**0.0104**		**0.1315**	**0.1315**		**0.1315**	**0.1315**		**2,076.0193**	**2,076.0193**	**0.0398**	**0.0381**	**2,088.3561**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Unmitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

11.0 Vegetation

Rancho Los Amigos-Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00

tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00
tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00
tblGrading	MaterialExported	0.00	9,206.00
tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00

tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	535.00	0.00
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00
tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.1380	41.5044	27.0052	0.0471	1.8000	2.0941	3.8941	0.2954	1.9449	2.2404	0.0000	4,634.6244	4,634.6244	1.2626	0.0000	4,666.1887
2020	19.4113	200.6479	117.0118	0.2747	62.5670	9.8878	72.4548	31.1647	9.1127	40.2773	0.0000	27,615.3057	27,615.3057	6.3364	0.0000	27,695.9914
2021	12.1098	102.8750	95.6318	0.2709	11.6795	3.6164	15.2959	3.1482	3.3823	6.5305	0.0000	27,245.5533	27,245.5533	3.1559	0.0000	27,324.4503
2022	18.9596	65.8116	70.1538	0.2265	11.5118	1.7532	13.2651	3.1038	1.6490	4.7528	0.0000	22,943.0564	22,943.0564	2.0415	0.0000	22,994.0941
Maximum	**19.4113**	**200.6479**	**117.0118**	**0.2747**	**62.5670**	**9.8878**	**72.4548**	**31.1647**	**9.1127**	**40.2773**	**0.0000**	**27,615.3057**	**27,615.3057**	**6.3364**	**0.0000**	**27,695.9914**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	0.6384	2.4077	28.7905	0.0471	0.8247	0.0736	0.8983	0.1478	0.0734	0.2212	0.0000	4,634.6244	4,634.6244	1.2626	0.0000	4,666.1887
2020	7.3303	47.7865	118.4108	0.2747	24.9671	0.5676	25.3103	12.3043	0.5537	12.6470	0.0000	27,615.3057	27,615.3057	6.3364	0.0000	27,695.9914
2021	7.1025	44.0526	99.5607	0.2709	11.6795	0.4334	12.1129	3.1482	0.4243	3.5725	0.0000	27,245.5533	27,245.5533	3.1559	0.0000	27,324.4503
2022	18.2603	39.9676	72.7454	0.2265	11.5118	0.3387	11.8505	3.1038	0.3302	3.4340	0.0000	22,943.0564	22,943.0564	2.0415	0.0000	22,994.0941
Maximum	**18.2603**	**47.7865**	**118.4108**	**0.2747**	**24.9671**	**0.5676**	**25.3103**	**12.3043**	**0.5537**	**12.6470**	**0.0000**	**27,615.3057**	**27,615.3057**	**6.3364**	**0.0000**	**27,695.9914**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**38.97**	**67.33**	**-3.13**	**0.00**	**44.06**	**91.85**	**52.18**	**50.40**	**91.41**	**63.06**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.5606**	**55.2537**	**130.7311**	**0.4568**	**37.2667**	**0.5247**	**37.7913**	**9.9732**	**0.4987**	**10.4719**		**47,601.4600**	**47,601.4600**	**2.5358**	**0.0400**	**47,676.7702**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
Mobile	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**26.5510**	**55.1662**	**130.6577**	**0.4563**	**37.2667**	**0.5180**	**37.7847**	**9.9732**	**0.4921**	**10.4653**		**47,496.4962**	**47,496.4962**	**2.5338**	**0.0381**	**47,571.1827**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.04**	**0.16**	**0.06**	**0.11**	**0.00**	**1.27**	**0.02**	**0.00**	**1.33**	**0.06**	**0.00**	**0.22**	**0.22**	**0.08**	**4.80**	**0.22**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	

10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38
Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48

Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38
Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48
Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	4.0384	41.4312	26.2087	0.0450		2.0924	2.0924		1.9433	1.9433		4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**4.0384**	**41.4312**	**26.2087**	**0.0450**	**1.5988**	**2.0924**	**3.6911**	**0.2421**	**1.9433**	**2.1854**		**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
Total	**0.0997**	**0.0732**	**0.7965**	**2.0700e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**205.5836**	**205.5836**	**7.0700e-003**		**205.7604**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	0.5387	2.3345	27.9940	0.0450		0.0718	0.0718		0.0718	0.0718	0.0000	4,429.0408	4,429.0408	1.2555		4,460.4284
Total	**0.5387**	**2.3345**	**27.9940**	**0.0450**	**0.6235**	**0.0718**	**0.6954**	**0.0944**	**0.0718**	**0.1662**	**0.0000**	**4,429.0408**	**4,429.0408**	**1.2555**		**4,460.4284**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
Total	**0.0997**	**0.0732**	**0.7965**	**2.0700e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**205.5836**	**205.5836**	**7.0700e-003**		**205.7604**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5988	0.0000	1.5988	0.2421	0.0000	0.2421			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**1.5988**	**1.9351**	**3.5339**	**0.2421**	**1.7962**	**2.0383**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6235	0.0000	0.6235	0.0944	0.0000	0.0944			0.0000			0.0000
Off-Road	0.5387	2.3345	27.9940	0.0450		0.0718	0.0718		0.0718	0.0718	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**0.5387**	**2.3345**	**27.9940**	**0.0450**	**0.6235**	**0.0718**	**0.6954**	**0.0944**	**0.0718**	**0.1662**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1767	0.0000	48.1767	26.4818	0.0000	26.4818			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1767**	**5.7710**	**53.9477**	**26.4818**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7889	0.0000	18.7889	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	1.2162	5.2703	54.0893	0.0993		0.1622	0.1622		0.1622	0.1622	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597

Total	**1.2162**	**5.2703**	**54.0893**	**0.0993**	**18.7889**	**0.1622**	**18.9511**	**10.3279**	**0.1622**	**10.4901**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0332	0.0000	6.0332	3.3119	0.0000	3.3119			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.0332**	**2.1739**	**8.2071**	**3.3119**	**2.0000**	**5.3119**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3530	0.0000	2.3530	1.2917	0.0000	1.2917			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**2.3530**	**0.1015**	**2.4545**	**1.2917**	**0.1015**	**1.3932**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4294	0.0000	7.4294	1.1249	0.0000	1.1249			0.0000			0.0000
Off-Road	3.8061	38.4401	25.8753	0.0450		1.9351	1.9351		1.7962	1.7962		4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**3.8061**	**38.4401**	**25.8753**	**0.0450**	**7.4294**	**1.9351**	**9.3645**	**1.1249**	**1.7962**	**2.9211**		**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8975	0.0000	2.8975	0.4387	0.0000	0.4387			0.0000			0.0000
Off-Road	0.5387	2.3345	27.9940	0.0450		0.0718	0.0718		0.0718	0.0718	0.0000	4,346.5090	4,346.5090	1.2516		4,377.7993
Total	**0.5387**	**2.3345**	**27.9940**	**0.0450**	**2.8975**	**0.0718**	**2.9693**	**0.4387**	**0.0718**	**0.5105**	**0.0000**	**4,346.5090**	**4,346.5090**	**1.2516**		**4,377.7993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5986	0.0000	6.5986	3.3738	0.0000	3.3738			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.5986**	**2.1739**	**8.7725**	**3.3738**	**2.0000**	**5.3738**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5734	0.0000	2.5734	1.3158	0.0000	1.3158			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**2.5734**	**0.1015**	**2.6750**	**1.3158**	**0.1015**	**1.4173**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7063	16.5232	14.9726	0.0201		1.1200	1.1200		1.0304	1.0304		1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1173**	**16.5232**	**14.9726**	**0.0201**		**1.1200**	**1.1200**		**1.0304**	**1.0304**		**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2980	3.1745	15.2362	0.0201		0.0329	0.0329		0.0329	0.0329	0.0000	1,951.5603	1,951.5603	0.6312		1,967.3397
Paving	0.4110					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7090**	**3.1745**	**15.2362**	**0.0201**		**0.0329**	**0.0329**		**0.0329**	**0.0329**	**0.0000**	**1,951.5603**	**1,951.5603**	**0.6312**		**1,967.3397**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					48.1772	0.0000	48.1772	26.4819	0.0000	26.4819			0.0000			0.0000
Off-Road	10.7309	111.7094	55.8499	0.0993		5.7710	5.7710		5.3093	5.3093		9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**10.7309**	**111.7094**	**55.8499**	**0.0993**	**48.1772**	**5.7710**	**53.9482**	**26.4819**	**5.3093**	**31.7912**		**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7891	0.0000	18.7891	10.3279	0.0000	10.3279			0.0000			0.0000
Off-Road	1.2162	5.2703	54.0893	0.0993		0.1622	0.1622		0.1622	0.1622	0.0000	9,626.4252	9,626.4252	3.1134		9,704.2597
Total	**1.2162**	**5.2703**	**54.0893**	**0.0993**	**18.7891**	**0.1622**	**18.9513**	**10.3279**	**0.1622**	**10.4901**	**0.0000**	**9,626.4252**	**9,626.4252**	**3.1134**		**9,704.2597**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2300**	**0.1631**	**1.8046**	**5.0000e-003**	**0.5030**	**4.2000e-003**	**0.5072**	**0.1334**	**3.8700e-003**	**0.1373**		**498.3392**	**498.3392**	**0.0157**		**498.7319**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6172	0.0000	6.6172	3.3751	0.0000	3.3751			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**6.6172**	**2.1739**	**8.7911**	**3.3751**	**2.0000**	**5.3751**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5807	0.0000	2.5807	1.3163	0.0000	1.3163			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**2.5807**	**0.1015**	**2.6822**	**1.3163**	**0.1015**	**1.4178**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**		**0.0616**	**0.0616**		**0.0616**	**0.0616**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**		**0.0616**	**0.0616**		**0.0616**	**0.0616**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2397	38.3721	33.6970	0.0538		2.2341	2.2341		2.1007	2.1007		5,106.1261	5,106.1261	1.2457		5,137.2690
Total	**4.2397**	**38.3721**	**33.6970**	**0.0538**		**2.2341**	**2.2341**		**2.1007**	**2.1007**		**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2976	37.1163	10.7277	0.0881	2.2343	0.1775	2.4118	0.6433	0.1698	0.8131		9,403.7724	9,403.7724	0.6288		9,419.4929
Worker	4.2415	3.0085	33.2839	0.0923	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,191.5892	9,191.5892	0.2897		9,198.8320
Total	**5.5391**	**40.1248**	**44.0116**	**0.1804**	**11.5117**	**0.2551**	**11.7668**	**3.1037**	**0.2413**	**3.3450**		**18,595.3616**	**18,595.3616**	**0.9185**		**18,618.3249**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2522	5.6041	35.4608	0.0538		0.2495	0.2495		0.2495	0.2495	0.0000	5,106.1261	5,106.1261	1.2457		5,137.2690

Total	**1.2522**	**5.6041**	**35.4608**	**0.0538**		**0.2495**	**0.2495**		**0.2495**	**0.2495**	**0.0000**	**5,106.1261**	**5,106.1261**	**1.2457**		**5,137.2690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2976	37.1163	10.7277	0.0881	2.2343	0.1775	2.4118	0.6433	0.1698	0.8131		9,403.7724	9,403.7724	0.6288		9,419.4929
Worker	4.2415	3.0085	33.2839	0.0923	9.2774	0.0776	9.3550	2.4604	0.0715	2.5319		9,191.5892	9,191.5892	0.2897		9,198.8320
Total	**5.5391**	**40.1248**	**44.0116**	**0.1804**	**11.5117**	**0.2551**	**11.7668**	**3.1037**	**0.2413**	**3.3450**		**18,595.3616**	**18,595.3616**	**0.9185**		**18,618.3249**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8019	34.8642	33.1504	0.0538		1.9172	1.9172		1.8026	1.8026		5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**3.8019**	**34.8642**	**33.1504**	**0.0538**		**1.9172**	**1.9172**		**1.8026**	**1.8026**		**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1137	33.8142	9.7988	0.0873	2.2344	0.0715	2.3059	0.6433	0.0684	0.7117		9,330.3588	9,330.3588	0.6023		9,345.4173
Worker	3.9576	2.7070	30.5652	0.0893	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		8,899.6841	8,899.6841	0.2619		8,906.2312
Total	**5.0713**	**36.5212**	**40.3641**	**0.1767**	**11.5118**	**0.1465**	**11.6583**	**3.1037**	**0.1374**	**3.2412**		**18,230.0429**	**18,230.0429**	**0.8642**		**18,251.6484**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1733	5.4792	35.3644	0.0538		0.2240	0.2240		0.2240	0.2240	0.0000	5,106.7278	5,106.7278	1.2320		5,137.5285
Total	**1.1733**	**5.4792**	**35.3644**	**0.0538**		**0.2240**	**0.2240**		**0.2240**	**0.2240**	**0.0000**	**5,106.7278**	**5,106.7278**	**1.2320**		**5,137.5285**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1137	33.8142	9.7988	0.0873	2.2344	0.0715	2.3059	0.6433	0.0684	0.7117		9,330.3588	9,330.3588	0.6023		9,345.4173
Worker	3.9576	2.7070	30.5652	0.0893	9.2774	0.0750	9.3524	2.4604	0.0691	2.5295		8,899.6841	8,899.6841	0.2619		8,906.2312
Total	**5.0713**	**36.5212**	**40.3641**	**0.1767**	**11.5118**	**0.1465**	**11.6583**	**3.1037**	**0.1374**	**3.2412**		**18,230.0429**	**18,230.0429**	**0.8642**		**18,251.6484**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4125	31.2313	32.7268	0.0539		1.6180	1.6180		1.5223	1.5223		5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**3.4125**	**31.2313**	**32.7268**	**0.0539**		**1.6180**	**1.6180**		**1.5223**	**1.5223**		**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0455	32.1357	9.2754	0.0865	2.2344	0.0626	2.2970	0.6433	0.0598	0.7032		9,247.4628	9,247.4628	0.5812		9,261.9922
Worker	3.7171	2.4447	28.1516	0.0862	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		8,586.9265	8,586.9265	0.2364		8,592.8375
Total	**4.7625**	**34.5804**	**37.4270**	**0.1726**	**11.5118**	**0.1352**	**11.6470**	**3.1038**	**0.1267**	**3.2305**		**17,834.3892**	**17,834.3892**	**0.8176**		**17,854.8297**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1215	5.3872	35.3184	0.0539		0.2035	0.2035		0.2035	0.2035	0.0000	5,108.6672	5,108.6672	1.2239		5,139.2644
Total	**1.1215**	**5.3872**	**35.3184**	**0.0539**		**0.2035**	**0.2035**		**0.2035**	**0.2035**	**0.0000**	**5,108.6672**	**5,108.6672**	**1.2239**		**5,139.2644**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0455	32.1357	9.2754	0.0865	2.2344	0.0626	2.2970	0.6433	0.0598	0.7032		9,247.4628	9,247.4628	0.5812		9,261.9922
Worker	3.7171	2.4447	28.1516	0.0862	9.2774	0.0726	9.3501	2.4604	0.0669	2.5273		8,586.9265	8,586.9265	0.2364		8,592.8375
Total	**4.7625**	**34.5804**	**37.4270**	**0.1726**	**11.5118**	**0.1352**	**11.6470**	**3.1038**	**0.1267**	**3.2305**		**17,834.3892**	**17,834.3892**	**0.8176**		**17,854.8297**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7614**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Total	**0.7863**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8182	5.6339	7.2544	0.0119		0.3269	0.3269		0.3269	0.3269		1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**18.2161**	**5.6339**	**7.2544**	**0.0119**		**0.3269**	**0.3269**		**0.3269**	**0.3269**		**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7434	0.4889	5.6303	0.0172	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,717.3853	1,717.3853	0.0473		1,718.5675
Total	**0.7434**	**0.4889**	**5.6303**	**0.0172**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,717.3853**	**1,717.3853**	**0.0473**		**1,718.5675**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	0.5151	7.3297	0.0119		0.0159	0.0159		0.0159	0.0159	0.0000	1,125.7922	1,125.7922	0.0733		1,127.6246
Total	**17.5169**	**0.5151**	**7.3297**	**0.0119**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0733**		**1,127.6246**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7434	0.4889	5.6303	0.0172	1.8555	0.0145	1.8700	0.4921	0.0134	0.5055		1,717.3853	1,717.3853	0.0473		1,718.5675
Total	**0.7434**	**0.4889**	**5.6303**	**0.0172**	**1.8555**	**0.0145**	**1.8700**	**0.4921**	**0.0134**	**0.5055**		**1,717.3853**	**1,717.3853**	**0.0473**		**1,718.5675**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Unmitigated	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

NaturalGas Mitigated	0.1903	1.7300	1.4532	0.0104		0.1315	0.1315		0.1315	0.1315		2,076.0193	2,076.0193	0.0398	0.0381	2,088.3561
NaturalGas Unmitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4762.93	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4791.45	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8983.97	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with El...	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4.53371	0.0489	0.4445	0.3734	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.3773	533.3773	0.0102	9.7800e-003	536.5469

Government Office Building	4.56085	0.0492	0.4471	0.3756	2.6800e-003		0.0340	0.0340		0.0340	0.0340		536.5712	536.5712	0.0103	9.8400e-003	539.7597
Government Office Building	8.5516	0.0922	0.8384	0.7043	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,006.0709	1,006.0709	0.0193	0.0184	1,012.0495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1903**	**1.7300**	**1.4532**	**0.0104**		**0.1315**	**0.1315**		**0.1315**	**0.1315**		**2,076.0193**	**2,076.0193**	**0.0398**	**0.0381**	**2,088.3561**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Unmitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					

Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Emergency Generator - Diesel	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

11.0 Vegetation

Haul Truck Emission Calculations

Phase	Total Trucks	Total One-Way Haul Truck Trips	Avg. Daily Truck Trips (In/Out)	Hauling Days	Distance to Disposal Site
Phase H-Campus Demolition	758	1,516	18	87	20
Phase I-Campus Site Preparation	0	0	0	0	20
Phase L-Campus Soils Remediation-Export[1]	444	888	60	15	80
Phase L-Campus Soils Remediation-Import	88	176	12	15	20
Phase A-ISD Demolition	2,876	5,752	80	142	20
Phase J-Campus Grading	767	1,534	154	10	5
Phase K-Campus Landscaping	0.00	0.00	0.00	0.00	20
Phase B-ISD Site Preparation	160.00	320.00	32.00	10.00	20
Phase C-ISD Grading/Excavation	356.50	714.00	72.00	10.00	5
Phase F-ISD Utils/Street Improvements	0.00	0.00	0.00	0.00	20
Phase D-ISD Building Construction	0.00	0.00	0.00	0.00	20
Phase G-ISD Paving	0.00	0.00	0.00	0.00	20
Phase E-ISD Architectural Coatings	0.00	0.00	0.00	0.00	20

EMISSION FACTORS	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5
Construction Year	g/mile									
2019	0.16556	4.81184	0.63384	0.01426	0.09637	0.07809	0.17446	0.03496	0.07471	0.10967
2020	0.13169	4.29215	0.51905	0.01399	0.09637	0.06249	0.15885	0.03496	0.05978	0.09474

EMISSIONS	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5
Phase	lb/day									
Phase H-Campus Demolition	0.131	3.819	0.503	0.011	0.076	0.062	0.138	0.028	0.059	0.087
Phase I-Campus Site Preparation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase L-Campus Soils Remediation-Export1	1.394	45.420	5.493	0.148	1.020	0.661	1.681	0.370	0.633	1.003
Phase L-Campus Soils Remediation-Import	0.070	2.271	0.275	0.007	0.051	0.033	0.084	0.018	0.032	0.050
Phase A-ISD Demolition	0.465	15.140	1.831	0.049	0.340	0.220	0.560	0.123	0.211	0.334
Phase J-Campus Grading	0.224	7.286	0.881	0.024	0.164	0.106	0.270	0.059	0.101	0.161
Phase K-Campus Landscaping	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase B-ISD Site Preparation	0.186	6.056	0.732	0.020	0.136	0.088	0.224	0.049	0.084	0.134
Phase C-ISD Grading/Excavation	0.105	3.406	0.412	0.011	0.076	0.050	0.126	0.028	0.047	0.075
Phase F-ISD Utils/Street Improvements	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase D-ISD Building Construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase G-ISD Paving	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Phase E-ISD Architectural Coatings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5
Phase	lb/day									
Phase H-Campus Demolition	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09
Phase I-Campus Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase L-Campus Soils Remediation	1.46	47.69	5.77	0.16	1.07	0.69	1.77	0.39	0.66	1.05
Phase A-ISD Demolition	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33
Phase J-Campus Grading	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16
Phase K-Campus Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase B-ISD Site Preparation	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13
Phase C-ISD Grading/Excavation	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08
Phase F-ISD Utils/Street Improvements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase D-ISD Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase G-ISD Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase E-ISD Architectural Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1 Distance to SCAQMD boundary

Region	SOUTH COAST AQMD
Vehicle Category	HHDT
Model Year	Aggregated
Fuel	DSL

Row Labels	Sum of ROG_RUNEX	um of NOx_RUNE	um of CO_RUNE	um of SOx_RUNE	m of PM10_PMT	m of PM10_PMB	m of PM10_RUN	m of PM2_5_PMT	m of PM2_5_PME	m of PM2_5_RUN	um of CO2_RUNE	um of CH4_RUNE	um of N2O_RUNE
2019	1.66E-01	4.81E+00	6.34E-01	1.43E-02	3.55E-02	6.09E-02	7.81E-02	8.87E-03	2.61E-02	7.47E-02	1.51E+03	7.69E-03	2.37E-01
2020	1.32E-01	4.29E+00	5.19E-01	1.40E-02	3.55E-02	6.09E-02	6.25E-02	8.87E-03	2.61E-02	5.98E-02	1.48E+03	6.12E-03	2.33E-01
2021	1.07E-01	3.85E+00	4.43E-01	1.37E-02	3.55E-02	6.09E-02	5.22E-02	8.87E-03	2.61E-02	4.99E-02	1.45E+03	4.97E-03	2.28E-01
2022	6.63E-02	3.29E+00	3.07E-01	1.33E-02	3.55E-02	6.09E-02	2.96E-02	8.87E-03	2.61E-02	2.84E-02	1.41E+03	3.08E-03	2.21E-01
Grand Total	**4.71E-01**	**1.62E+01**	**1.90E+00**	**5.53E-02**	**1.42E-01**	**2.43E-01**	**2.22E-01**	**3.55E-02**	**1.04E-01**	**2.13E-01**	**5.85E+03**	**2.19E-02**	**9.19E-01**

Year	ROG	NOX	CO	Sox	PM10 TW	PM10 BW	PM10 Exh	PM2.5 TW	PM2.5 BW	PM2.5 Exh	CO2	CH4	N2O
	g/mile										g/mi		
2019	1.66E-01	4.81E+00	6.34E-01	1.43E-02	3.55E-02	6.09E-02	7.81E-02	8.87E-03	2.61E-02	7.47E-02	1.51E+03	7.69E-03	2.37E-01
2020	1.32E-01	4.29E+00	5.19E-01	1.40E-02	3.55E-02	6.09E-02	6.25E-02	8.87E-03	2.61E-02	5.98E-02	1.48E+03	6.12E-03	2.33E-01
2021	1.07E-01	3.85E+00	4.43E-01	1.37E-02	3.55E-02	6.09E-02	5.22E-02	8.87E-03	2.61E-02	4.99E-02	1.45E+03	4.97E-03	2.28E-01
2022	6.63E-02	3.29E+00	3.07E-01	1.33E-02	3.55E-02	6.09E-02	2.96E-02	8.87E-03	2.61E-02	2.84E-02	1.41E+03	3.08E-03	2.21E-01

Year	ROG	NOX	CO	Sox	M10 Fugitive Dus	PM10 Exhuast	Total PM10	M2.5 Fugitive Du	PM2.5 Exhuast	Total PM2.5	CO2	CH4	N2O
	g/mile										g/mi		
2019	1.66E-01	4.81E+00	6.34E-01	1.43E-02	9.64E-02	7.81E-02	1.74E-01	3.50E-02	7.47E-02	1.10E-01	1.51E+03	7.69E-03	2.37E-01
2020	1.32E-01	4.29E+00	5.19E-01	1.40E-02	9.64E-02	6.25E-02	1.59E-01	3.50E-02	5.98E-02	9.47E-02	1.48E+03	6.12E-03	2.33E-01
2021	1.07E-01	3.85E+00	4.43E-01	1.37E-02	9.64E-02	5.22E-02	1.49E-01	3.50E-02	4.99E-02	8.49E-02	1.45E+03	4.97E-03	2.28E-01
2022	6.63E-02	3.29E+00	3.07E-01	1.33E-02	9.64E-02	2.96E-02	1.26E-01	3.50E-02	2.84E-02	6.33E-02	1.41E+03	3.08E-03	2.21E-01

Unmitigated Localized Construction Emissions

Unmitigated LST Analysis Summary

Pollutant/Averaging Time	Project Impact (ug/m^3)	Background (ppm)[1]	Project Impact (ppm)	Project Total	Threshold	Threshold Units	Exceeds Threshold?
1st High 1-Hour NO_2	309.79	0.099	0.165	0.264	0.180	ppm	Yes
8th High 1-Hour NO_2	185.64	0.061	0.099	0.160	0.100	ppm	Yes
Annual NO_2	6.95	0.017	0.004	0.021	0.030	ppm	No
1st High 1-Hour CO	443.26	6.1	0.4	6.5	20.0	ppm	No
1st High 8-Hour CO	73.11	4.6	0.1	4.7	9.0	ppm	No
1st High 24-Hour PM10	6.81	--	--	6.8	10.4	ug/m^3	No
Annual-PM10	0.35	--	--	0.3	1.0	ug/m^3	No
1st High 24-Hour PM2.5	4.23	--	--	4.2	10.4	ug/m^3	No

1. Consistent with SCAQMD modeling guidance, background concentrations for analyzing PM10 and PM2.5 CAAQS and NAAQS are not required due to the nonattainment status for the South Coast Basin.

Source Receptor Area #12: South Central Los Angeles County[1]

Background Concentrations for LST Analysis[2]

Year	Max 1-Hour CO		Max 8-Hour CO	
	ppm	ug/m^3	ppm	ug/m^3
2014	6.0	6871	3.8	4352
2015	4.4	5039	3.3	3779
2016	4.4	5039	3.9	4466
2017	6.1	6986	4.6	5268
Maximum	**6.1**	**6986**	**4.6**	**5267.9**

Year	Max 1-Hour NO_2 (CAAQS)		1-Hour NO_2 98th percentile (NAAQS)		Annual (CAAQS)	
	ppm	ug/m^3	ppm	ug/m^3	ppm	ug/m^3
2014	0.0682	128.3	0.0592	111.4	0.0156	29.35
2015	0.0783	147.3	0.0587	110.4	0.0169	31.80
2016	0.0637	119.8	0.0584	109.9	0.0156	29.35
2017	0.0991	186.4	0.0668	125.7	0.0161	30.29
Maximum	**0.0991**	**186.45**	**0.0668**	**125.68**	**0.017**	**31.80**
		2014-2016	0.059	110.6		
NAAQS/CAAQS		2015-2017	0.061	115.3		

CO	Averaging Time	ppm	ug/m^3
State	1-hr	20	22904
State/Federal	8-hr	9	10307
NO_2	**Averaging Time**	**ppm**	**ug/m^3**
State	1-hr	0.18	339
Federal (98th percentile)	1-hr	0.1	188
State	Annual	0.03	56

1. The Project is located in SRA #5, Southeast Los Angeles County, however SCAQMD no longer provides monitoring data for this SRA. SRA 12 was used since is the closest monitoring site to the Project Site.
2. Background concentrations from SCAQMD Historical Monitoring Data
http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year
3. For 1-hour NO2 NAAQS, background concentration is the 3 year average of the 98th percentile of the daily maximum 1-hour average in accordacne with SCAQMD Modeling Guidance

Unmitigated Construction Emissions

Pollutant	Daily Maximum Emissions

NOX **200.35**

ISD	Campus Offroad (excluding Soil remediation) lb/day	Campus-Soil Remediation
38.440	111.709	50.198
g/s		
0.605	1.759	0.791

CO **113.684**

ISD	Campus Offroad (excluding Soil remediation) lb/day	Campus-Soil Remediation
25.8753	55.8499	31.9583
g/s		
0.408	0.880	0.503

PM10 **37.62**

ISD	Campus Offroad (excluding Soil remediation) DUST lb/day	Campus-Soil Remediation	ISD	Campus Offroad (excluding Soil remediation) EXHAUST lb/day	Campus-Soil Remediation
2.8975	18.7889	2.353	1.9351	5.771	2.1739
g/s			**g/s**		
0.046	0.296	0.037	0.030	0.091	0.034

PM2.5 **23.02**

ISD	Campus Offroad (excluding Soil remediation) DUST lb/day	Campus-Soil Remediation	ISD	Campus Offroad (excluding Soil remediation) EXHAUST lb/day	Campus-Soil Remediation
0.4387	10.3279	1.2917	1.7962	5.3093	2
g/s			**g/s**		

	0.007	0.163	0.020	0.028	0.084	0.032

MAX YEAR:2020

Annual Emissions		
NOX		
ISD	**Campus Offroad (excluding Soil remediation) ton/yr**	**Campus-Soil Remediation**
7.7172	3.3088	1.6314
	g/s	
0.935	0.401	0.198

PM10

ISD	**Campus Offroad (excluding Soil remediation) DUST ton/yr**	**Campus-Soil Remediation**	**ISD**	**Campus Offroad (excluding Soil remediation) EXHAUST ton/yr**	**Campus-Soil Remediation**
0.464	0.351	0.077	0.400	0.168	0.071
	g/s			**g/s**	
0.056	0.043	0.009	0.048	0.020	0.009

Air Quality Construction Analysis

Localized Annual Emissions	Onsite Emissions									
Source	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day									
3.2 Phase H-Campus Demolition - 2019	0.13	1.37	0.86	0.00	0.02	0.07	0.09	0.00	0.06	0.07
3.2 Phase H-Campus Demolition - 2020	0.04	0.40	0.27	0.00	0.01	0.02	0.03	0.00	0.02	0.02
3.3 Phase I-Campus Site Preparation - 2020	0.17	1.79	0.89	0.00	0.30	0.09	0.39	0.17	0.09	0.25
3.4 Phase L-Campus Soils Remediation - 2020	0.14	1.63	1.04	0.00	0.08	0.07	0.15	0.04	0.07	0.11
3.5 Phase A-ISD Demolition - 2020	0.14	1.36	0.92	0.00	0.10	0.07	0.17	0.02	0.06	0.08
3.6 Phase J-Campus Grading - 2020	0.08	0.85	0.54	0.00	0.04	0.04	0.08	0.02	0.03	0.06
3.7 Phase K-Campus Landscaping - 2020	0.03	0.26	0.24	0.00	0.00	0.02	0.02	0.00	0.02	0.02
3.8 Phase B-ISD Site Preparation - 2020	0.18	1.90	0.95	0.00	0.32	0.10	0.42	0.18	0.09	0.27
3.9 Phase C-ISD Grading/Excavation - 2020	0.07	0.80	0.51	0.00	0.04	0.03	0.08	0.02	0.03	0.05
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.17	1.69	1.11	0.00	0.00	0.08	0.08	0.00	0.08	0.08
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.15	1.51	1.04	0.00	0.00	0.07	0.07	0.00	0.07	0.07
3.11 Phase D-ISD Building Construction - 2020	0.22	1.96	1.72	0.00	0.00	0.11	0.11	0.00	0.11	0.11
3.11 Phase D-ISD Building Construction - 2021	0.50	4.55	4.33	0.01	0.00	0.25	0.25	0.00	0.24	0.24
3.11 Phase D-ISD Building Construction - 2022	0.05	0.47	0.49	0.00	0.00	0.02	0.02	0.00	0.02	0.02
3.12 Phase G-ISD Paving - 2021	0.02	0.17	0.19	0.00	0.00	0.01	0.01	0.00	0.01	0.01
3.13 Phase E-ISD Architectural Coatings - 2022	0.34	0.10	0.13	0.00	0.00	0.01	0.01	0.00	0.01	0.01

Localized Annual Emissions	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Phase H-Campus Demolition - 2019	0.1	1.4	0.9	0.0	0.0	0.1	0.1	0.0	0.1	0.1
3.2 Phase H-Campus Demolition - 2020	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3 Phase I-Campus Site Preparation - 2020	0.2	1.8	0.9	0.0	0.3	0.1	0.4	0.2	0.1	0.3
3.4 Phase L-Campus Soils Remediation - 2020	0.1	1.6	1.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1
3.5 Phase A-ISD Demolition - 2020	0.1	1.4	0.9	0.0	0.1	0.1	0.2	0.0	0.1	0.1
3.6 Phase J-Campus Grading - 2020	0.1	0.9	0.5	0.0	0.0	0.0	0.1	0.0	0.0	0.1
3.7 Phase K-Campus Landscaping - 2020	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8 Phase B-ISD Site Preparation - 2020	0.2	1.9	0.9	0.0	0.3	0.1	0.4	0.2	0.1	0.3
3.9 Phase C-ISD Grading/Excavation - 2020	0.1	0.8	0.5	0.0	0.0	0.0	0.1	0.0	0.0	0.1
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.2	1.7	1.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.2	1.5	1.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1
3.11 Phase D-ISD Building Construction - 2020	0.2	2.0	1.7	0.0	0.0	0.1	0.1	0.0	0.1	0.1
3.11 Phase D-ISD Building Construction - 2021	0.5	4.5	4.3	0.0	0.0	0.3	0.3	0.0	0.2	0.2
3.11 Phase D-ISD Building Construction - 2022	0.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.12 Phase G-ISD Paving - 2021	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.13 Phase E-ISD Architectural Coatings - 2022	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Overlapping Phases

	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
2019	**0.133**	**1.367**	**0.865**	**0.001**	**0.021**	**0.069**	**0.090**	**0.003**	**0.064**	**0.067**
2020	**1.240**	**12.657**	**8.194**	**0.014**	**0.891**	**0.638**	**1.529**	**0.443**	**0.591**	**1.034**
2021	**0.671**	**6.227**	**5.552**	**0.009**	**0.000**	**0.334**	**0.334**	**0.000**	**0.313**	**0.313**
2022	**0.388**	**0.573**	**0.625**	**0.001**	**0.000**	**0.030**	**0.030**	**0.000**	**0.029**	**0.029**
Project Daily Maximum Emissions	**1.240**	**12.657**	**8.194**	**0.014**	**0.891**	**0.638**	**1.529**	**0.443**	**0.591**	**1.034**

Rancho Los Amigos-Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00
tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00

tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00
tblGrading	MaterialExported	0.00	9,206.00
tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00

tblTripsAndVMT	HaulingTripNumber	535.00	0.00
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00
tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1362	1.3697	0.8919	1.5500e-003	0.0593	0.0691	0.1284	9.7200e-003	0.0642	0.0739	0.0000	138.8496	138.8496	0.0378	0.0000	139.7946
2020	1.5214	14.7611	10.6525	0.0243	2.9121	0.6517	3.5637	1.3046	0.6037	1.9084	0.0000	2,186.9999	2,186.9999	0.4198	0.0000	2,197.4958
2021	1.2824	11.0875	10.9010	0.0327	1.4838	0.3525	1.8363	0.4007	0.3304	0.7311	0.0000	2,996.6580	2,996.6580	0.3009	0.0000	3,004.1795
2022	0.4661	1.1105	1.2984	3.9800e-003	0.2031	0.0326	0.2357	0.0547	0.0310	0.0857	0.0000	364.4136	364.4136	0.0296	0.0000	365.1536
Maximum	**1.5214**	**14.7611**	**10.9010**	**0.0327**	**2.9121**	**0.6517**	**3.5637**	**1.3046**	**0.6037**	**1.9084**	**0.0000**	**2,996.6580**	**2,996.6580**	**0.4198**	**0.0000**	**3,004.1795**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Year	tons/yr										MT/yr					
2019	0.1362	1.3697	0.8919	1.5500e-003	0.0271	0.0691	0.0962	4.8400e-003	0.0642	0.0690	0.0000	138.8494	138.8494	0.0378	0.0000	139.7944
2020	1.5214	14.7611	10.6524	0.0243	1.5185	0.6517	2.1702	0.6121	0.6037	1.2158	0.0000	2,186.9984	2,186.9984	0.4198	0.0000	2,197.4943
2021	1.2824	11.0875	10.9010	0.0327	1.4838	0.3525	1.8363	0.4007	0.3304	0.7311	0.0000	2,996.6571	2,996.6571	0.3009	0.0000	3,004.1786
2022	0.4661	1.1105	1.2984	3.9800e-003	0.2031	0.0326	0.2357	0.0547	0.0310	0.0857	0.0000	364.4135	364.4135	0.0296	0.0000	365.1535
Maximum	**1.5214**	**14.7611**	**10.9010**	**0.0327**	**1.5185**	**0.6517**	**2.1702**	**0.6121**	**0.6037**	**1.2158**	**0.0000**	**2,996.6571**	**2,996.6571**	**0.4198**	**0.0000**	**3,004.1786**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**30.61**	**0.00**	**24.73**	**39.41**	**0.00**	**24.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2019	12-31-2019	1.4997	1.4997
2	1-1-2020	3-31-2020	4.8930	4.8930
3	4-1-2020	6-30-2020	4.1800	4.1800
4	7-1-2020	9-30-2020	3.0390	3.0390
5	10-1-2020	12-31-2020	4.1045	4.1045
6	1-1-2021	3-31-2021	3.6959	3.6959
7	4-1-2021	6-30-2021	3.2914	3.2914
8	7-1-2021	9-30-2021	2.6476	2.6476
9	10-1-2021	12-31-2021	2.6371	2.6371
10	1-1-2022	3-31-2022	1.5747	1.5747
11	4-1-2022	6-30-2022	0.0446	0.0446
		Highest	4.8930	4.8930

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	3,716.9638	3,716.9638	0.1455	0.0353	3,731.1153
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	146.7016	0.0000	146.7016	8.6698	0.0000	363.4469
Water						0.0000	0.0000		0.0000	0.0000	13.3977	196.8891	210.2868	1.3842	0.0342	255.0757
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**160.0993**	**11,525.6580**	**11,685.7573**	**10.6082**	**0.0695**	**11,971.6604**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0347	0.3157	0.2652	1.8900e-003		0.0240	0.0240		0.0240	0.0240	0.0000	3,651.9520	3,651.9520	0.1432	0.0346	3,665.8298
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	51.3456	0.0000	51.3456	3.0344	0.0000	127.2064
Water						0.0000	0.0000		0.0000	0.0000	13.3977	196.8891	210.2868	1.3842	0.0342	255.0757
Total	**4.7821**	**10.2174**	**24.0069**	**0.0843**	**6.6516**	**0.0939**	**6.7455**	**1.7830**	**0.0892**	**1.8722**	**64.7433**	**11,460.6462**	**11,525.3895**	**4.9705**	**0.0687**	**11,670.1343**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.04	0.16	0.06	0.12	0.00	1.27	0.02	0.00	1.34	0.06	59.56	0.56	1.37	53.14	1.04	2.52

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	
10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38

Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38
Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48
Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73

Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0528	0.0000	0.0528	7.9900e-003	0.0000	7.9900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1333	1.3672	0.8649	1.4800e-003		0.0691	0.0691		0.0641	0.0641	0.0000	132.5926	132.5926	0.0376	0.0000	133.5323
Total	**0.1333**	**1.3672**	**0.8649**	**1.4800e-003**	**0.0528**	**0.0691**	**0.1218**	**7.9900e-003**	**0.0641**	**0.0721**	**0.0000**	**132.5926**	**132.5926**	**0.0376**	**0.0000**	**133.5323**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	2.4800e-003	0.0270	7.0000e-005	6.5100e-003	6.0000e-005	6.5700e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	6.2569	6.2569	2.2000e-004	0.0000	6.2623
Total	**2.9800e-003**	**2.4800e-003**	**0.0270**	**7.0000e-005**	**6.5100e-003**	**6.0000e-005**	**6.5700e-003**	**1.7300e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**6.2569**	**6.2569**	**2.2000e-004**	**0.0000**	**6.2623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0206	0.0000	0.0206	3.1200e-003	0.0000	3.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1333	1.3672	0.8649	1.4800e-003		0.0691	0.0691		0.0641	0.0641	0.0000	132.5925	132.5925	0.0376	0.0000	133.5321
Total	**0.1333**	**1.3672**	**0.8649**	**1.4800e-003**	**0.0206**	**0.0691**	**0.0896**	**3.1200e-003**	**0.0641**	**0.0673**	**0.0000**	**132.5925**	**132.5925**	**0.0376**	**0.0000**	**133.5321**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	2.4800e-003	0.0270	7.0000e-005	6.5100e-003	6.0000e-005	6.5700e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	6.2569	6.2569	2.2000e-004	0.0000	6.2623
Total	**2.9800e-003**	**2.4800e-003**	**0.0270**	**7.0000e-005**	**6.5100e-003**	**6.0000e-005**	**6.5700e-003**	**1.7300e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**6.2569**	**6.2569**	**2.2000e-004**	**0.0000**	**6.2623**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0168	0.0000	0.0168	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0400	0.4036	0.2717	4.7000e-004		0.0203	0.0203		0.0189	0.0189	0.0000	41.4024	41.4024	0.0119	0.0000	41.7005

Total	**0.0400**	**0.4036**	**0.2717**	**4.7000e-004**	**0.0168**	**0.0203**	**0.0371**	**2.5400e-003**	**0.0189**	**0.0214**	**0.0000**	**41.4024**	**41.4024**	**0.0119**	**0.0000**	**41.7005**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	**8.7000e-004**	**7.0000e-004**	**7.7800e-003**	**2.0000e-005**	**2.0700e-003**	**2.0000e-005**	**2.0900e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.9304**	**1.9304**	**6.0000e-005**	**0.0000**	**1.9319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.5500e-003	0.0000	6.5500e-003	9.9000e-004	0.0000	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0400	0.4036	0.2717	4.7000e-004		0.0203	0.0203		0.0189	0.0189	0.0000	41.4024	41.4024	0.0119	0.0000	41.7004
Total	**0.0400**	**0.4036**	**0.2717**	**4.7000e-004**	**6.5500e-003**	**0.0203**	**0.0269**	**9.9000e-004**	**0.0189**	**0.0199**	**0.0000**	**41.4024**	**41.4024**	**0.0119**	**0.0000**	**41.7004**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	**8.7000e-004**	**7.0000e-004**	**7.7800e-003**	**2.0000e-005**	**2.0700e-003**	**2.0000e-005**	**2.0900e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.9304**	**1.9304**	**6.0000e-005**	**0.0000**	**1.9319**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7708	0.0000	0.7708	0.4237	0.0000	0.4237	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.7874	0.8936	1.5900e-003		0.0923	0.0923		0.0850	0.0850	0.0000	139.7271	139.7271	0.0452	0.0000	140.8569
Total	**0.1717**	**1.7874**	**0.8936**	**1.5900e-003**	**0.7708**	**0.0923**	**0.8632**	**0.4237**	**0.0850**	**0.5087**	**0.0000**	**139.7271**	**139.7271**	**0.0452**	**0.0000**	**140.8569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3200e-003	2.6800e-003	0.0296	8.0000e-005	7.8900e-003	7.0000e-005	7.9600e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.3537	7.3537	2.3000e-004	0.0000	7.3595
Total	**3.3200e-003**	**2.6800e-003**	**0.0296**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9600e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.3537**	**7.3537**	**2.3000e-004**	**0.0000**	**7.3595**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3006	0.0000	0.3006	0.1653	0.0000	0.1653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.7874	0.8936	1.5900e-003		0.0923	0.0923		0.0850	0.0850	0.0000	139.7270	139.7270	0.0452	0.0000	140.8567
Total	**0.1717**	**1.7874**	**0.8936**	**1.5900e-003**	**0.3006**	**0.0923**	**0.3930**	**0.1653**	**0.0850**	**0.2502**	**0.0000**	**139.7270**	**139.7270**	**0.0452**	**0.0000**	**140.8567**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3200e-003	2.6800e-003	0.0296	8.0000e-005	7.8900e-003	7.0000e-005	7.9600e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.3537	7.3537	2.3000e-004	0.0000	7.3595
Total	**3.3200e-003**	**2.6800e-003**	**0.0296**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9600e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.3537**	**7.3537**	**2.3000e-004**	**0.0000**	**7.3595**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1961	0.0000	0.1961	0.1076	0.0000	0.1076	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1446	1.6314	1.0386	2.0200e-003		0.0707	0.0707		0.0650	0.0650	0.0000	177.0740	177.0740	0.0573	0.0000	178.5057
Total	**0.1446**	**1.6314**	**1.0386**	**2.0200e-003**	**0.1961**	**0.0707**	**0.2667**	**0.1076**	**0.0650**	**0.1726**	**0.0000**	**177.0740**	**177.0740**	**0.0573**	**0.0000**	**178.5057**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	2.4200e-003	0.0268	7.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.6388	6.6388	2.1000e-004	0.0000	6.6440
Total	**3.0000e-003**	**2.4200e-003**	**0.0268**	**7.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**6.6388**	**6.6388**	**2.1000e-004**	**0.0000**	**6.6440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0765	0.0000	0.0765	0.0420	0.0000	0.0420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1446	1.6314	1.0386	2.0200e-003		0.0707	0.0707		0.0650	0.0650	0.0000	177.0737	177.0737	0.0573	0.0000	178.5055
Total	**0.1446**	**1.6314**	**1.0386**	**2.0200e-003**	**0.0765**	**0.0707**	**0.1471**	**0.0420**	**0.0650**	**0.1070**	**0.0000**	**177.0737**	**177.0737**	**0.0573**	**0.0000**	**178.5055**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	2.4200e-003	0.0268	7.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.6388	6.6388	2.1000e-004	0.0000	6.6440
Total	**3.0000e-003**	**2.4200e-003**	**0.0268**	**7.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**6.6388**	**6.6388**	**2.1000e-004**	**0.0000**	**6.6440**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2637	0.0000	0.2637	0.0399	0.0000	0.0399	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1351	1.3646	0.9186	1.6000e-003		0.0687	0.0687		0.0638	0.0638	0.0000	139.9796	139.9796	0.0403	0.0000	140.9873

Total	**0.1351**	**1.3646**	**0.9186**	**1.6000e-003**	**0.2637**	**0.0687**	**0.3324**	**0.0399**	**0.0638**	**0.1037**	**0.0000**	**139.9796**	**139.9796**	**0.0403**	**0.0000**	**140.9873**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9500e-003	2.3800e-003	0.0263	7.0000e-005	7.0000e-003	6.0000e-005	7.0600e-003	1.8600e-003	6.0000e-005	1.9100e-003	0.0000	6.5264	6.5264	2.1000e-004	0.0000	6.5316
Total	**2.9500e-003**	**2.3800e-003**	**0.0263**	**7.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8600e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**6.5264**	**6.5264**	**2.1000e-004**	**0.0000**	**6.5316**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1029	0.0000	0.1029	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1351	1.3646	0.9186	1.6000e-003		0.0687	0.0687		0.0638	0.0638	0.0000	139.9794	139.9794	0.0403	0.0000	140.9871
Total	**0.1351**	**1.3646**	**0.9186**	**1.6000e-003**	**0.1029**	**0.0687**	**0.1716**	**0.0156**	**0.0638**	**0.0793**	**0.0000**	**139.9794**	**139.9794**	**0.0403**	**0.0000**	**140.9871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9500e-003	2.3800e-003	0.0263	7.0000e-005	7.0000e-003	6.0000e-005	7.0600e-003	1.8600e-003	6.0000e-005	1.9100e-003	0.0000	6.5264	6.5264	2.1000e-004	0.0000	6.5316
Total	**2.9500e-003**	**2.3800e-003**	**0.0263**	**7.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8600e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**6.5264**	**6.5264**	**2.1000e-004**	**0.0000**	**6.5316**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1122	0.0000	0.1122	0.0574	0.0000	0.0574	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0757	0.8534	0.5433	1.0500e-003		0.0370	0.0370		0.0340	0.0340	0.0000	92.6233	92.6233	0.0300	0.0000	93.3722
Total	**0.0757**	**0.8534**	**0.5433**	**1.0500e-003**	**0.1122**	**0.0370**	**0.1491**	**0.0574**	**0.0340**	**0.0914**	**0.0000**	**92.6233**	**92.6233**	**0.0300**	**0.0000**	**93.3722**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753
Total	**1.5700e-003**	**1.2700e-003**	**0.0140**	**4.0000e-005**	**3.7300e-003**	**3.0000e-005**	**3.7600e-003**	**9.9000e-004**	**3.0000e-005**	**1.0200e-003**	**0.0000**	**3.4726**	**3.4726**	**1.1000e-004**	**0.0000**	**3.4753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0438	0.0000	0.0438	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0757	0.8534	0.5433	1.0500e-003		0.0370	0.0370		0.0340	0.0340	0.0000	92.6232	92.6232	0.0300	0.0000	93.3721
Total	**0.0757**	**0.8534**	**0.5433**	**1.0500e-003**	**0.0438**	**0.0370**	**0.0807**	**0.0224**	**0.0340**	**0.0564**	**0.0000**	**92.6232**	**92.6232**	**0.0300**	**0.0000**	**93.3721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753
Total	**1.5700e-003**	**1.2700e-003**	**0.0140**	**4.0000e-005**	**3.7300e-003**	**3.0000e-005**	**3.7600e-003**	**9.9000e-004**	**3.0000e-005**	**1.0200e-003**	**0.0000**	**3.4726**	**3.4726**	**1.1000e-004**	**0.0000**	**3.4753**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0273	0.2644	0.2396	3.2000e-004		0.0179	0.0179		0.0165	0.0165	0.0000	28.3268	28.3268	9.1600e-003	0.0000	28.5559
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0339**	**0.2644**	**0.2396**	**3.2000e-004**		**0.0179**	**0.0179**		**0.0165**	**0.0165**	**0.0000**	**28.3268**	**28.3268**	**9.1600e-003**	**0.0000**	**28.5559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0273	0.2644	0.2396	3.2000e-004		0.0179	0.0179		0.0165	0.0165	0.0000	28.3268	28.3268	9.1600e-003	0.0000	28.5558
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0339**	**0.2644**	**0.2396**	**3.2000e-004**		**0.0179**	**0.0179**		**0.0165**	**0.0165**	**0.0000**	**28.3268**	**28.3268**	**9.1600e-003**	**0.0000**	**28.5558**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8190	0.0000	0.8190	0.4502	0.0000	0.4502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1824	1.8991	0.9495	1.6900e-003		0.0981	0.0981		0.0903	0.0903	0.0000	148.4601	148.4601	0.0480	0.0000	149.6605

Total	**0.1824**	**1.8991**	**0.9495**	**1.6900e-003**	**0.8190**	**0.0981**	**0.9171**	**0.4502**	**0.0903**	**0.5405**	**0.0000**	**148.4601**	**148.4601**	**0.0480**	**0.0000**	**149.6605**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3194	0.0000	0.3194	0.1756	0.0000	0.1756	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1824	1.8991	0.9495	1.6900e-003		0.0981	0.0981		0.0903	0.0903	0.0000	148.4599	148.4599	0.0480	0.0000	149.6603
Total	**0.1824**	**1.8991**	**0.9495**	**1.6900e-003**	**0.3194**	**0.0981**	**0.4175**	**0.1756**	**0.0903**	**0.2658**	**0.0000**	**148.4599**	**148.4599**	**0.0480**	**0.0000**	**149.6603**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1059	0.0000	0.1059	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0712	0.8032	0.5113	9.9000e-004		0.0348	0.0348		0.0320	0.0320	0.0000	87.1749	87.1749	0.0282	0.0000	87.8797
Total	**0.0712**	**0.8032**	**0.5113**	**9.9000e-004**	**0.1059**	**0.0348**	**0.1407**	**0.0540**	**0.0320**	**0.0860**	**0.0000**	**87.1749**	**87.1749**	**0.0282**	**0.0000**	**87.8797**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0413	0.0000	0.0413	0.0211	0.0000	0.0211	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0712	0.8032	0.5113	9.9000e-004		0.0348	0.0348		0.0320	0.0320	0.0000	87.1748	87.1748	0.0282	0.0000	87.8796
Total	**0.0712**	**0.8032**	**0.5113**	**9.9000e-004**	**0.0413**	**0.0348**	**0.0761**	**0.0211**	**0.0320**	**0.0531**	**0.0000**	**87.1748**	**87.1748**	**0.0282**	**0.0000**	**87.8796**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1689	1.6933	1.1094	1.9800e-003		0.0846	0.0846		0.0786	0.0786	0.0000	173.3929	173.3929	0.0490	0.0000	174.6166
Total	**0.1689**	**1.6933**	**1.1094**	**1.9800e-003**		**0.0846**	**0.0846**		**0.0786**	**0.0786**	**0.0000**	**173.3929**	**173.3929**	**0.0490**	**0.0000**	**174.6166**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1689	1.6933	1.1094	1.9800e-003		0.0846	0.0846		0.0786	0.0786	0.0000	173.3927	173.3927	0.0490	0.0000	174.6164
Total	**0.1689**	**1.6933**	**1.1094**	**1.9800e-003**		**0.0846**	**0.0846**		**0.0786**	**0.0786**	**0.0000**	**173.3927**	**173.3927**	**0.0490**	**0.0000**	**174.6164**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1519	1.5092	1.0351	1.8600e-003		0.0745	0.0745		0.0692	0.0692	0.0000	163.2038	163.2038	0.0459	0.0000	164.3522

Total	**0.1519**	**1.5092**	**1.0351**	**1.8600e-003**		**0.0745**	**0.0745**		**0.0692**	**0.0692**	**0.0000**	**163.2038**	**163.2038**	**0.0459**	**0.0000**	**164.3522**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	2.4100e-003	0.0272	8.0000e-005	7.8900e-003	7.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.1202	7.1202	2.1000e-004	0.0000	7.1254
Total	**3.1000e-003**	**2.4100e-003**	**0.0272**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.1202**	**7.1202**	**2.1000e-004**	**0.0000**	**7.1254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1519	1.5092	1.0351	1.8600e-003		0.0745	0.0745		0.0692	0.0692	0.0000	163.2036	163.2036	0.0459	0.0000	164.3520
Total	**0.1519**	**1.5092**	**1.0351**	**1.8600e-003**		**0.0745**	**0.0745**		**0.0692**	**0.0692**	**0.0000**	**163.2036**	**163.2036**	**0.0459**	**0.0000**	**164.3520**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	2.4100e-003	0.0272	8.0000e-005	7.8900e-003	7.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.1202	7.1202	2.1000e-004	0.0000	7.1254
Total	**3.1000e-003**	**2.4100e-003**	**0.0272**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.1202**	**7.1202**	**2.1000e-004**	**0.0000**	**7.1254**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2162	1.9570	1.7186	2.7500e-003		0.1139	0.1139		0.1071	0.1071	0.0000	236.2422	236.2422	0.0576	0.0000	237.6831
Total	**0.2162**	**1.9570**	**1.7186**	**2.7500e-003**		**0.1139**	**0.1139**		**0.1071**	**0.1071**	**0.0000**	**236.2422**	**236.2422**	**0.0576**	**0.0000**	**237.6831**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	1.9288	0.5221	4.5700e-003	0.1121	8.9700e-003	0.1211	0.0324	8.5800e-003	0.0409	0.0000	442.1738	442.1738	0.0281	0.0000	442.8762
Worker	0.1954	0.1576	1.7424	4.7900e-003	0.4639	3.9600e-003	0.4678	0.1232	3.6400e-003	0.1268	0.0000	432.3377	432.3377	0.0136	0.0000	432.6783
Total	**0.2600**	**2.0864**	**2.2646**	**9.3600e-003**	**0.5760**	**0.0129**	**0.5889**	**0.1556**	**0.0122**	**0.1678**	**0.0000**	**874.5115**	**874.5115**	**0.0417**	**0.0000**	**875.5545**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2162	1.9570	1.7185	2.7500e-003		0.1139	0.1139		0.1071	0.1071	0.0000	236.2419	236.2419	0.0576	0.0000	237.6828
Total	**0.2162**	**1.9570**	**1.7185**	**2.7500e-003**		**0.1139**	**0.1139**		**0.1071**	**0.1071**	**0.0000**	**236.2419**	**236.2419**	**0.0576**	**0.0000**	**237.6828**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	1.9288	0.5221	4.5700e-003	0.1121	8.9700e-003	0.1211	0.0324	8.5800e-003	0.0409	0.0000	442.1738	442.1738	0.0281	0.0000	442.8762
Worker	0.1954	0.1576	1.7424	4.7900e-003	0.4639	3.9600e-003	0.4678	0.1232	3.6400e-003	0.1268	0.0000	432.3377	432.3377	0.0136	0.0000	432.6783
Total	**0.2600**	**2.0864**	**2.2646**	**9.3600e-003**	**0.5760**	**0.0129**	**0.5889**	**0.1556**	**0.0122**	**0.1678**	**0.0000**	**874.5115**	**874.5115**	**0.0417**	**0.0000**	**875.5545**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4961	4.5498	4.3261	7.0300e-003		0.2502	0.2502		0.2352	0.2352	0.0000	604.5733	604.5733	0.1459	0.0000	608.2197
Total	**0.4961**	**4.5498**	**4.3261**	**7.0300e-003**		**0.2502**	**0.2502**		**0.2352**	**0.2352**	**0.0000**	**604.5733**	**604.5733**	**0.1459**	**0.0000**	**608.2197**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1414	4.4948	1.2186	0.0116	0.2869	9.1600e-003	0.2961	0.0828	8.7600e-003	0.0916	0.0000	1,122.6563	1,122.6563	0.0689	0.0000	1,124.3779
Worker	0.4661	0.3628	4.0960	0.0119	1.1869	9.7800e-003	1.1967	0.3153	9.0100e-003	0.3243	0.0000	1,071.1455	1,071.1455	0.0315	0.0000	1,071.9335
Total	**0.6075**	**4.8576**	**5.3146**	**0.0234**	**1.4738**	**0.0189**	**1.4928**	**0.3981**	**0.0178**	**0.4158**	**0.0000**	**2,193.8018**	**2,193.8018**	**0.1004**	**0.0000**	**2,196.3114**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4961	4.5498	4.3261	7.0300e-003		0.2502	0.2502		0.2352	0.2352	0.0000	604.5726	604.5726	0.1459	0.0000	608.2190
Total	**0.4961**	**4.5498**	**4.3261**	**7.0300e-003**		**0.2502**	**0.2502**		**0.2352**	**0.2352**	**0.0000**	**604.5726**	**604.5726**	**0.1459**	**0.0000**	**608.2190**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1414	4.4948	1.2186	0.0116	0.2869	9.1600e-003	0.2961	0.0828	8.7600e-003	0.0916	0.0000	1,122.6563	1,122.6563	0.0689	0.0000	1,124.3779
Worker	0.4661	0.3628	4.0960	0.0119	1.1869	9.7800e-003	1.1967	0.3153	9.0100e-003	0.3243	0.0000	1,071.1455	1,071.1455	0.0315	0.0000	1,071.9335
Total	**0.6075**	**4.8576**	**5.3146**	**0.0234**	**1.4738**	**0.0189**	**1.4928**	**0.3981**	**0.0178**	**0.4158**	**0.0000**	**2,193.8018**	**2,193.8018**	**0.1004**	**0.0000**	**2,196.3114**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0512	0.4685	0.4909	8.1000e-004		0.0243	0.0243		0.0228	0.0228	0.0000	69.5176	69.5176	0.0167	0.0000	69.9339

Total	**0.0512**	**0.4685**	**0.4909**	**8.1000e-004**		**0.0243**	**0.0243**		**0.0228**	**0.0228**	**0.0000**	**69.5176**	**69.5176**	**0.0167**	**0.0000**	**69.9339**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.4908	0.1325	1.3200e-003	0.0330	9.2000e-004	0.0339	9.5200e-003	8.8000e-004	0.0104	0.0000	127.9076	127.9076	7.6400e-003	0.0000	128.0986
Worker	0.0502	0.0377	0.4338	1.3100e-003	0.1364	1.0900e-003	0.1375	0.0362	1.0000e-003	0.0372	0.0000	118.7923	118.7923	3.2700e-003	0.0000	118.8741
Total	**0.0655**	**0.5285**	**0.5663**	**2.6300e-003**	**0.1694**	**2.0100e-003**	**0.1714**	**0.0458**	**1.8800e-003**	**0.0476**	**0.0000**	**246.6998**	**246.6998**	**0.0109**	**0.0000**	**246.9726**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0512	0.4685	0.4909	8.1000e-004		0.0243	0.0243		0.0228	0.0228	0.0000	69.5175	69.5175	0.0167	0.0000	69.9339
Total	**0.0512**	**0.4685**	**0.4909**	**8.1000e-004**		**0.0243**	**0.0243**		**0.0228**	**0.0228**	**0.0000**	**69.5175**	**69.5175**	**0.0167**	**0.0000**	**69.9339**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.4908	0.1325	1.3200e-003	0.0330	9.2000e-004	0.0339	9.5200e-003	8.8000e-004	0.0104	0.0000	127.9076	127.9076	7.6400e-003	0.0000	128.0986
Worker	0.0502	0.0377	0.4338	1.3100e-003	0.1364	1.0900e-003	0.1375	0.0362	1.0000e-003	0.0372	0.0000	118.7923	118.7923	3.2700e-003	0.0000	118.8741
Total	**0.0655**	**0.5285**	**0.5663**	**2.6300e-003**	**0.1694**	**2.0100e-003**	**0.1714**	**0.0458**	**1.8800e-003**	**0.0476**	**0.0000**	**246.6998**	**246.6998**	**0.0109**	**0.0000**	**246.9726**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0163	0.1680	0.1905	3.0000e-004		8.8100e-003	8.8100e-003		8.1100e-003	8.1100e-003	0.0000	26.0305	26.0305	8.4200e-003	0.0000	26.2410
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0229**	**0.1680**	**0.1905**	**3.0000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1100e-003**	**8.1100e-003**	**0.0000**	**26.0305**	**26.0305**	**8.4200e-003**	**0.0000**	**26.2410**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.5000e-004	7.3700e-003	2.0000e-005	2.1400e-003	2.0000e-005	2.1500e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.9284	1.9284	6.0000e-005	0.0000	1.9298
Total	**8.4000e-004**	**6.5000e-004**	**7.3700e-003**	**2.0000e-005**	**2.1400e-003**	**2.0000e-005**	**2.1500e-003**	**5.7000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**1.9284**	**1.9284**	**6.0000e-005**	**0.0000**	**1.9298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0163	0.1680	0.1905	3.0000e-004		8.8100e-003	8.8100e-003		8.1100e-003	8.1100e-003	0.0000	26.0305	26.0305	8.4200e-003	0.0000	26.2410
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0229**	**0.1680**	**0.1905**	**3.0000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1100e-003**	**8.1100e-003**	**0.0000**	**26.0305**	**26.0305**	**8.4200e-003**	**0.0000**	**26.2410**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.5000e-004	7.3700e-003	2.0000e-005	2.1400e-003	2.0000e-005	2.1500e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.9284	1.9284	6.0000e-005	0.0000	1.9298
Total	**8.4000e-004**	**6.5000e-004**	**7.3700e-003**	**2.0000e-005**	**2.1400e-003**	**2.0000e-005**	**2.1500e-003**	**5.7000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**1.9284**	**1.9284**	**6.0000e-005**	**0.0000**	**1.9298**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.1042	0.1342	2.2000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	18.8941	18.8941	1.2300e-003	0.0000	18.9248
Total	**0.3370**	**0.1042**	**0.1342**	**2.2000e-004**		**6.0500e-003**	**6.0500e-003**		**6.0500e-003**	**6.0500e-003**	**0.0000**	**18.8941**	**18.8941**	**1.2300e-003**	**0.0000**	**18.9248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	9.2900e-003	0.1070	3.2000e-004	0.0337	2.7000e-004	0.0339	8.9400e-003	2.5000e-004	9.1900e-003	0.0000	29.3021	29.3021	8.1000e-004	0.0000	29.3223
Total	**0.0124**	**9.2900e-003**	**0.1070**	**3.2000e-004**	**0.0337**	**2.7000e-004**	**0.0339**	**8.9400e-003**	**2.5000e-004**	**9.1900e-003**	**0.0000**	**29.3021**	**29.3021**	**8.1000e-004**	**0.0000**	**29.3223**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.1042	0.1342	2.2000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	18.8941	18.8941	1.2300e-003	0.0000	18.9248
Total	**0.3370**	**0.1042**	**0.1342**	**2.2000e-004**		**6.0500e-003**	**6.0500e-003**		**6.0500e-003**	**6.0500e-003**	**0.0000**	**18.8941**	**18.8941**	**1.2300e-003**	**0.0000**	**18.9248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	9.2900e-003	0.1070	3.2000e-004	0.0337	2.7000e-004	0.0339	8.9400e-003	2.5000e-004	9.1900e-003	0.0000	29.3021	29.3021	8.1000e-004	0.0000	29.3223
Total	**0.0124**	**9.2900e-003**	**0.1070**	**3.2000e-004**	**0.0337**	**2.7000e-004**	**0.0339**	**8.9400e-003**	**2.5000e-004**	**9.1900e-003**	**0.0000**	**29.3021**	**29.3021**	**8.1000e-004**	**0.0000**	**29.3223**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Unmitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876			

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,308.2437	3,308.2437	0.1366	0.0283	3,320.0790
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,355.8776	3,355.8776	0.1386	0.0287	3,367.8834
NaturalGas Mitigated	0.0347	0.3157	0.2652	1.8900e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.7083	343.7083	6.5900e-003	6.3000e-003	345.7508
NaturalGas Unmitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815

Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.6548e+006	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	88.3066	88.3066	1.6900e-003	1.6200e-003	88.8314
Government Office Building	1.66471e+006	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003	0.0000	88.8354	88.8354	1.7000e-003	1.6300e-003	89.3633
Government Office Building	3.12133e+006	0.0168	0.1530	0.1285	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.5663	166.5663	3.1900e-003	3.0500e-003	167.5561
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0347**	**0.3157**	**0.2652**	**1.9000e-003**		**0.0240**	**0.0240**		**0.0240**	**0.0240**	**0.0000**	**343.7083**	**343.7083**	**6.5800e-003**	**6.3000e-003**	**345.7508**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	691.1950	0.0285	5.9000e-003	693.6678
Government Office Building	2.18232e+006	695.3339	0.0287	5.9400e-003	697.8215
Government Office Building	4.09185e+006	1,303.7511	0.0538	0.0111	1,308.4153
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	535.7912	0.0221	4.5800e-003	537.7081
Unenclosed Parking with Elevator	407400	129.8064	5.3600e-003	1.1100e-003	130.2708
Total		**3,355.8776**	**0.1386**	**0.0287**	**3,367.8834**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.13092e+006	678.9568	0.0280	5.8000e-003	681.3858
Government Office Building	2.14368e+006	683.0224	0.0282	5.8300e-003	685.4659
Government Office Building	4.0194e+006	1,280.6670	0.0529	0.0109	1,285.2486
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	535.7912	0.0221	4.5800e-003	537.7081
Unenclosed Parking with Elevator	407400	129.8064	5.3600e-003	1.1100e-003	130.2708

Total		**3,308.2437**	**0.1366**	**0.0283**	**3,320.0790**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Unmitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	210.2868	1.3842	0.0342	255.0757
Unmitigated	210.2868	1.3842	0.0342	255.0757

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	42.2303 / 0	188.6015	1.3833	0.0340	233.3128
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 6.126	21.6853	9.0000e-004	1.9000e-004	21.7629
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**210.2868**	**1.3842**	**0.0342**	**255.0757**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	42.2303 / 0	188.6015	1.3833	0.0340	233.3128
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 6.126	21.6853	9.0000e-004	1.9000e-004	21.7629
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**210.2868**	**1.3842**	**0.0342**	**255.0757**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	51.3456	3.0344	0.0000	127.2064
Unmitigated	146.7016	8.6698	0.0000	363.4469

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	722.7	146.7016	8.6698	0.0000	363.4469
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**146.7016**	**8.6698**	**0.0000**	**363.4469**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	252.945	51.3456	3.0344	0.0000	127.2064
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**51.3456**	**3.0344**	**0.0000**	**127.2064**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

11.0 Vegetation

Mitigated Localized Construction Emissions

Mitigated LST Analysis Summary

Pollutant/Averaging Time	Project Impact (ug/m^3)	Background (ppm)[1]	Project Impact (ppm)	Project Total	Threshold	Threshold Units	Exceeds Threshold?
1st High 1-Hour NO_2	17.60	0.099	0.009	0.108	0.180	ppm	No
8th High 1-Hour NO_2	10.54	0.061	0.006	0.067	0.100	ppm	No
Annual NO_2	0.54	0.017	0.0003	0.017	0.030	ppm	No
1st High 1-Hour CO	451.44	6.1	0.4	6.5	20.0	ppm	No
1st High 8-Hour CO	74.38	4.6	0.1	4.7	9.0	ppm	No
1st High 24-Hour PM10	5.37	--	--	5.4	10.4	ug/m^3	No
Annual-PM10	0.21	--	--	0.2	1.0	ug/m^3	No
1st High 24-Hour PM2.5	2.91	--	--	2.9	10.4	ug/m^3	No

1. Consistent with SCAQMD modeling guidance, background concentrations for analyzing PM10 and PM2.5 CAAQS and NAAQS are not required due to the nonattainment status for the South Coast Basin.

Source Receptor Area #12: South Central Los Angeles County[1]

Background Concentrations for LST Analysis[2]

Year	Max 1-Hour CO		Max 8-Hour CO	
	ppm	ug/m^3	ppm	ug/m^3
2014	6.0	6871	3.8	4352
2015	4.4	5039	3.3	3779
2016	4.4	5039	3.9	4466
2017	6.1	6986	4.6	5268
Maximum	**6.1**	**6986**	**4.6**	**5267.9**

Year	Max 1-Hour NO_2 (CAAQS)		1-Hour NO_2 98th percentile (NAAQS)		Annual (CAAQS)	
	ppm	ug/m^3	ppm	ug/m^3	ppm	ug/m^3
2014	0.0682	128.3	0.0592	111.4	0.0156	29.35
2015	0.0783	147.3	0.0587	110.4	0.0169	31.80
2016	0.0637	119.8	0.0584	109.9	0.0156	29.35
2017	0.0991	186.4	0.0668	125.7	0.0161	30.29
Maximum	**0.0991**	**186.45**	**0.0668**	**125.68**	**0.017**	**31.80**
		2014-2016	0.059	110.6		
NAAQS/CAAQS		2015-2017	0.061	115.3		

CO	Averaging Time	ppm	ug/m^3
State	1-hr	20	22904
State/Federal	8-hr	9	10307
NO_2	**Averaging Time**	**ppm**	**ug/m^3**
State	1-hr	0.18	339
Federal (98th percentile)	1-hr	0.1	188
State	Annual	0.03	56

1. The Project is located in SRA #5, Southeast Los Angeles County, however SCAQMD no longer provides monitoring data for this SRA. SRA 12 was used since is the closest monitoring site to the Project Site.
2. Background concentrations from SCAQMD Historical Monitoring Data
http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year
3. For 1-hour NO2 NAAQS, background concentration is the 3 year average of the 98th percentile of the daily maximum 1-hour average in accordacne with SCAQMD Modeling Guidance

Unmitigated Construction Emissions

Pollutant	Daily Maximum Emissions					
NOX	**200.35**					
	ISD	**Campus Offroad (excluding Soil remediation) lb/day**	**Campus-Soil Remediation**			
	2.335	5.270	3.300			
		g/s				
	0.037	0.083	0.052			
CO	**113.684**					
	ISD	**Campus Offroad (excluding Soil remediation)** lb/day	**Campus-Soil Remediation**			
	27.994	54.0893	32.9991			
		g/s				
	0.441	0.852	0.520			
PM10	**37.62**					
	ISD	**Campus Offroad (excluding Soil remediation) DUST** lb/day	**Campus-Soil Remediation**	**ISD**	**Campus Offroad (excluding Soil remediation) EXHAUST** lb/day	**Campus-Soil Remediation**
	2.8975	18.7889	2.353	0.0718	0.1622	0.1015
		g/s			**g/s**	
	0.046	0.296	0.037	0.001	0.003	0.002
PM2.5	**23.02**					
	ISD	**Campus Offroad (excluding Soil remediation) DUST** lb/day	**Campus-Soil Remediation**	**ISD**	**Campus Offroad (excluding Soil remediation) EXHAUST** lb/day	**Campus-Soil Remediation**
	0.4387	10.3279	1.2917	0.0718	0.1622	0.1015
		g/s			**g/s**	
	0.007	0.163	0.020	0.001	0.003	0.002

MAX YEAR:2020

Annual Emissions

NOX

ISD	Campus Offroad (excluding Soil remediation) ton/yr	Campus-Soil Remediation
0.6133	0.2157	0.1073
	g/s	
0.074	0.026	0.013

PM10

ISD	Campus Offroad (excluding Soil remediation) DUST ton/yr	Campus-Soil Remediation	ISD	Campus Offroad (excluding Soil remediation) EXHAUST ton/yr	Campus-Soil Remediation
0.464	0.351	0.077	0.023	0.006	0.003
	g/s			**g/s**	
0.056	0.043	0.009	0.003	0.001	0.000

Air Quality Construction Analysis

Localized Annual Emissions	Onsite Emissions									
Source	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day									
3.2 Phase H-Campus Demolition - 2019	0.018	0.077	0.924	0.001	0.021	0.002	0.023	0.003	0.002	0.005
3.2 Phase H-Campus Demolition - 2020	0.006	0.025	0.294	0.000	0.007	0.001	0.007	0.001	0.001	0.002
3.3 Phase I-Campus Site Preparation - 2020	0.020	0.084	0.865	0.002	0.301	0.003	0.303	0.165	0.003	0.168
3.4 Phase L-Campus Soils Remediation - 2020	0.025	0.107	1.073	0.002	0.077	0.003	0.080	0.042	0.003	0.045
3.5 Phase A-ISD Demolition - 2020	0.019	0.083	0.994	0.002	0.103	0.003	0.105	0.016	0.003	0.018
3.6 Phase J-Campus Grading - 2020	0.013	0.056	0.561	0.001	0.044	0.002	0.046	0.022	0.002	0.024
3.7 Phase K-Campus Landscaping - 2020	0.011	0.051	0.244	0.000	0.000	0.001	0.001	0.000	0.001	0.001
3.8 Phase B-ISD Site Preparation - 2020	0.021	0.090	0.920	0.002	0.319	0.003	0.322	0.176	0.003	0.178
3.9 Phase C-ISD Grading/Excavation - 2020	0.012	0.053	0.528	0.001	0.041	0.002	0.043	0.021	0.002	0.023
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.024	0.102	1.187	0.002	0.000	0.003	0.003	0.000	0.003	0.003
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.022	0.096	1.117	0.002	0.000	0.003	0.003	0.000	0.003	0.003
3.11 Phase D-ISD Building Construction - 2020	0.064	0.286	1.809	0.003	0.000	0.013	0.013	0.000	0.013	0.013
3.11 Phase D-ISD Building Construction - 2021	0.153	0.715	4.615	0.007	0.000	0.029	0.029	0.000	0.029	0.029
3.11 Phase D-ISD Building Construction - 2022	0.017	0.081	0.530	0.001	0.000	0.003	0.003	0.000	0.003	0.003
3.12 Phase G-ISD Paving - 2021	0.010	0.016	0.225	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.13 Phase E-ISD Architectural Coatings - 2022	0.324	0.010	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Localized Annual Emissions	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Phase H-Campus Demolition - 2019	0.018	0.077	0.924	0.001	0.021	0.002	0.023	0.003	0.002	0.005
3.2 Phase H-Campus Demolition - 2020	0.006	0.025	0.294	0.000	0.007	0.001	0.007	0.001	0.001	0.002
3.3 Phase I-Campus Site Preparation - 2020	0.020	0.084	0.865	0.002	0.301	0.003	0.303	0.165	0.003	0.168
3.4 Phase L-Campus Soils Remediation - 2020	0.025	0.107	1.073	0.002	0.077	0.003	0.080	0.042	0.003	0.045
3.5 Phase A-ISD Demolition - 2020	0.019	0.083	0.994	0.002	0.103	0.003	0.105	0.016	0.003	0.018
3.6 Phase J-Campus Grading - 2020	0.013	0.056	0.561	0.001	0.044	0.002	0.046	0.022	0.002	0.024
3.7 Phase K-Campus Landscaping - 2020	0.011	0.051	0.244	0.000	0.000	0.001	0.001	0.000	0.001	0.001
3.8 Phase B-ISD Site Preparation - 2020	0.021	0.090	0.920	0.002	0.319	0.003	0.322	0.176	0.003	0.178
3.9 Phase C-ISD Grading/Excavation - 2020	0.012	0.053	0.528	0.001	0.041	0.002	0.043	0.021	0.002	0.023
3.10 Phase F-ISD Utils/Street Improvements - 2020	0.024	0.102	1.187	0.002	0.000	0.003	0.003	0.000	0.003	0.003
3.10 Phase F-ISD Utils/Street Improvements - 2021	0.022	0.096	1.117	0.002	0.000	0.003	0.003	0.000	0.003	0.003
3.11 Phase D-ISD Building Construction - 2020	0.064	0.286	1.809	0.003	0.000	0.013	0.013	0.000	0.013	0.013
3.11 Phase D-ISD Building Construction - 2021	0.153	0.715	4.615	0.007	0.000	0.029	0.029	0.000	0.029	0.029
3.11 Phase D-ISD Building Construction - 2022	0.017	0.081	0.530	0.001	0.000	0.003	0.003	0.000	0.003	0.003
3.12 Phase G-ISD Paving - 2021	0.010	0.016	0.225	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.13 Phase E-ISD Architectural Coatings - 2022	0.324	0.010	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Overlapping Phases

	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
2019	**0.0178**	**0.0770**	**0.9238**	**0.0015**	**0.0206**	**0.0024**	**0.0230**	**0.0031**	**0.0024**	**0.0055**
2020	**0.2139**	**0.9363**	**8.4737**	**0.0145**	**0.8911**	**0.0317**	**0.9227**	**0.4430**	**0.0317**	**0.4744**
2021	**0.1855**	**0.8270**	**5.9573**	**0.0092**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**0.0327**	**0.0327**
2022	**0.3409**	**0.0903**	**0.6654**	**0.0010**	**0.0000**	**0.0033**	**0.0033**	**0.0000**	**0.0033**	**0.0033**
Project Daily Maximum Emissions	**0.3409**	**0.9363**	**8.4737**	**0.0145**	**0.8911**	**0.0327**	**0.9227**	**0.4430**	**0.0327**	**0.4744**

Rancho Los Amigos-Construction

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00

tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00
tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00
tblGrading	MaterialExported	0.00	9,206.00
tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00

tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	535.00	0.00
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00
tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1362	1.3697	0.8919	1.5500e-003	0.0593	0.0691	0.1284	9.7200e-003	0.0642	0.0739	0.0000	138.8496	138.8496	0.0378	0.0000	139.7946
2020	1.5214	14.7611	10.6525	0.0243	2.9121	0.6517	3.5637	1.3046	0.6037	1.9084	0.0000	2,186.9999	2,186.9999	0.4198	0.0000	2,197.4958
2021	1.2824	11.0875	10.9010	0.0327	1.4838	0.3525	1.8363	0.4007	0.3304	0.7311	0.0000	2,996.6580	2,996.6580	0.3009	0.0000	3,004.1795
2022	0.4661	1.1105	1.2984	3.9800e-003	0.2031	0.0326	0.2357	0.0547	0.0310	0.0857	0.0000	364.4136	364.4136	0.0296	0.0000	365.1536
Maximum	**1.5214**	**14.7611**	**10.9010**	**0.0327**	**2.9121**	**0.6517**	**3.5637**	**1.3046**	**0.6037**	**1.9084**	**0.0000**	**2,996.6580**	**2,996.6580**	**0.4198**	**0.0000**	**3,004.1795**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0208	0.0795	0.9508	1.5500e-003	0.0271	2.4300e-003	0.0295	4.8400e-003	2.4200e-003	7.2700e-003	0.0000	138.8494	138.8494	0.0378	0.0000	139.7944
2020	0.4953	3.0401	10.9320	0.0243	1.5185	0.0451	1.5636	0.6121	0.0443	0.6564	0.0000	2,186.9984	2,186.9984	0.4198	0.0000	2,197.4943
2021	0.7970	5.6876	11.3066	0.0327	1.4838	0.0517	1.5355	0.4007	0.0505	0.4512	0.0000	2,996.6571	2,996.6571	0.3009	0.0000	3,004.1786
2022	0.4188	0.6281	1.3387	3.9800e-003	0.2031	5.6300e-003	0.2087	0.0547	5.4800e-003	0.0602	0.0000	364.4135	364.4135	0.0296	0.0000	365.1535
Maximum	**0.7970**	**5.6876**	**11.3066**	**0.0327**	**1.5185**	**0.0517**	**1.5636**	**0.6121**	**0.0505**	**0.6564**	**0.0000**	**2,996.6571**	**2,996.6571**	**0.4198**	**0.0000**	**3,004.1786**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**49.16**	**66.69**	**-3.30**	**0.00**	**30.61**	**90.52**	**42.10**	**39.41**	**90.02**	**58.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2019	12-31-2019	1.4997	0.1001
2	1-1-2020	3-31-2020	4.8930	0.3274
3	4-1-2020	6-30-2020	4.1800	0.3179
4	7-1-2020	9-30-2020	3.0390	1.0337
5	10-1-2020	12-31-2020	4.1045	1.8110
6	1-1-2021	3-31-2021	3.6959	1.6339
7	4-1-2021	6-30-2021	3.2914	1.6101
8	7-1-2021	9-30-2021	2.6476	1.5686
9	10-1-2021	12-31-2021	2.6371	1.5852
10	1-1-2022	3-31-2022	1.5747	1.0370
11	4-1-2022	6-30-2022	0.0446	0.0342
		Highest	4.8930	1.8110

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	3,716.9638	3,716.9638	0.1455	0.0353	3,731.1153
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	146.7016	0.0000	146.7016	8.6698	0.0000	363.4469
Water						0.0000	0.0000		0.0000	0.0000	13.3977	196.8891	210.2868	1.3842	0.0342	255.0757
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**160.0993**	**11,525.6580**	**11,685.7573**	**10.6082**	**0.0695**	**11,971.6604**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0347	0.3157	0.2652	1.8900e-003		0.0240	0.0240		0.0240	0.0240	0.0000	3,651.9520	3,651.9520	0.1432	0.0346	3,665.8298
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	51.3456	0.0000	51.3456	3.0344	0.0000	127.2064
Water						0.0000	0.0000		0.0000	0.0000	13.3977	196.8891	210.2868	1.3842	0.0342	255.0757

Total	4.7821	10.2174	24.0069	0.0843	6.6516	0.0939	6.7455	1.7830	0.0892	1.8722	64.7433	11,460.6462	11,525.3895	4.9705	0.0687	11,670.1343

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.04	0.16	0.06	0.12	0.00	1.27	0.02	0.00	1.34	0.06	59.56	0.56	1.37	53.14	1.04	2.52

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	
10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38
Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38
Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48

Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0528	0.0000	0.0528	7.9900e-003	0.0000	7.9900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1333	1.3672	0.8649	1.4800e-003		0.0691	0.0691		0.0641	0.0641	0.0000	132.5926	132.5926	0.0376	0.0000	133.5323
Total	**0.1333**	**1.3672**	**0.8649**	**1.4800e-003**	**0.0528**	**0.0691**	**0.1218**	**7.9900e-003**	**0.0641**	**0.0721**	**0.0000**	**132.5926**	**132.5926**	**0.0376**	**0.0000**	**133.5323**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	2.4800e-003	0.0270	7.0000e-005	6.5100e-003	6.0000e-005	6.5700e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	6.2569	6.2569	2.2000e-004	0.0000	6.2623
Total	**2.9800e-003**	**2.4800e-003**	**0.0270**	**7.0000e-005**	**6.5100e-003**	**6.0000e-005**	**6.5700e-003**	**1.7300e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**6.2569**	**6.2569**	**2.2000e-004**	**0.0000**	**6.2623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0206	0.0000	0.0206	3.1200e-003	0.0000	3.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.0770	0.9238	1.4800e-003		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	132.5925	132.5925	0.0376	0.0000	133.5321
Total	**0.0178**	**0.0770**	**0.9238**	**1.4800e-003**	**0.0206**	**2.3700e-003**	**0.0230**	**3.1200e-003**	**2.3700e-003**	**5.4900e-003**	**0.0000**	**132.5925**	**132.5925**	**0.0376**	**0.0000**	**133.5321**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	2.4800e-003	0.0270	7.0000e-005	6.5100e-003	6.0000e-005	6.5700e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	6.2569	6.2569	2.2000e-004	0.0000	6.2623
Total	**2.9800e-003**	**2.4800e-003**	**0.0270**	**7.0000e-005**	**6.5100e-003**	**6.0000e-005**	**6.5700e-003**	**1.7300e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**6.2569**	**6.2569**	**2.2000e-004**	**0.0000**	**6.2623**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.0168	0.0000	0.0168	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0400	0.4036	0.2717	4.7000e-004		0.0203	0.0203		0.0189	0.0189	0.0000	41.4024	41.4024	0.0119	0.0000	41.7005
Total	**0.0400**	**0.4036**	**0.2717**	**4.7000e-004**	**0.0168**	**0.0203**	**0.0371**	**2.5400e-003**	**0.0189**	**0.0214**	**0.0000**	**41.4024**	**41.4024**	**0.0119**	**0.0000**	**41.7005**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	**8.7000e-004**	**7.0000e-004**	**7.7800e-003**	**2.0000e-005**	**2.0700e-003**	**2.0000e-005**	**2.0900e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.9304**	**1.9304**	**6.0000e-005**	**0.0000**	**1.9319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.5500e-003	0.0000	6.5500e-003	9.9000e-004	0.0000	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6600e-003	0.0245	0.2939	4.7000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	41.4024	41.4024	0.0119	0.0000	41.7004
Total	**5.6600e-003**	**0.0245**	**0.2939**	**4.7000e-004**	**6.5500e-003**	**7.5000e-004**	**7.3000e-003**	**9.9000e-004**	**7.5000e-004**	**1.7400e-003**	**0.0000**	**41.4024**	**41.4024**	**0.0119**	**0.0000**	**41.7004**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	**8.7000e-004**	**7.0000e-004**	**7.7800e-003**	**2.0000e-005**	**2.0700e-003**	**2.0000e-005**	**2.0900e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.9304**	**1.9304**	**6.0000e-005**	**0.0000**	**1.9319**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7708	0.0000	0.7708	0.4237	0.0000	0.4237	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.7874	0.8936	1.5900e-003		0.0923	0.0923		0.0850	0.0850	0.0000	139.7271	139.7271	0.0452	0.0000	140.8569
Total	**0.1717**	**1.7874**	**0.8936**	**1.5900e-003**	**0.7708**	**0.0923**	**0.8632**	**0.4237**	**0.0850**	**0.5087**	**0.0000**	**139.7271**	**139.7271**	**0.0452**	**0.0000**	**140.8569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3200e-003	2.6800e-003	0.0296	8.0000e-005	7.8900e-003	7.0000e-005	7.9600e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.3537	7.3537	2.3000e-004	0.0000	7.3595
Total	**3.3200e-003**	**2.6800e-003**	**0.0296**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9600e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.3537**	**7.3537**	**2.3000e-004**	**0.0000**	**7.3595**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3006	0.0000	0.3006	0.1653	0.0000	0.1653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.0843	0.8654	1.5900e-003		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	139.7270	139.7270	0.0452	0.0000	140.8567
Total	**0.0195**	**0.0843**	**0.8654**	**1.5900e-003**	**0.3006**	**2.5900e-003**	**0.3032**	**0.1653**	**2.5900e-003**	**0.1678**	**0.0000**	**139.7270**	**139.7270**	**0.0452**	**0.0000**	**140.8567**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3200e-003	2.6800e-003	0.0296	8.0000e-005	7.8900e-003	7.0000e-005	7.9600e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.3537	7.3537	2.3000e-004	0.0000	7.3595

Total	**3.3200e-003**	**2.6800e-003**	**0.0296**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9600e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.3537**	**7.3537**	**2.3000e-004**	**0.0000**	**7.3595**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1961	0.0000	0.1961	0.1076	0.0000	0.1076	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1446	1.6314	1.0386	2.0200e-003		0.0707	0.0707		0.0650	0.0650	0.0000	177.0740	177.0740	0.0573	0.0000	178.5057
Total	**0.1446**	**1.6314**	**1.0386**	**2.0200e-003**	**0.1961**	**0.0707**	**0.2667**	**0.1076**	**0.0650**	**0.1726**	**0.0000**	**177.0740**	**177.0740**	**0.0573**	**0.0000**	**178.5057**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	2.4200e-003	0.0268	7.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.6388	6.6388	2.1000e-004	0.0000	6.6440
Total	**3.0000e-003**	**2.4200e-003**	**0.0268**	**7.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**6.6388**	**6.6388**	**2.1000e-004**	**0.0000**	**6.6440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0765	0.0000	0.0765	0.0420	0.0000	0.0420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.1073	1.0725	2.0200e-003		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003	0.0000	177.0737	177.0737	0.0573	0.0000	178.5055
Total	**0.0248**	**0.1073**	**1.0725**	**2.0200e-003**	**0.0765**	**3.3000e-003**	**0.0798**	**0.0420**	**3.3000e-003**	**0.0453**	**0.0000**	**177.0737**	**177.0737**	**0.0573**	**0.0000**	**178.5055**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	2.4200e-003	0.0268	7.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.6388	6.6388	2.1000e-004	0.0000	6.6440
Total	**3.0000e-003**	**2.4200e-003**	**0.0268**	**7.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**6.6388**	**6.6388**	**2.1000e-004**	**0.0000**	**6.6440**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.2637	0.0000	0.2637	0.0399	0.0000	0.0399	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1351	1.3646	0.9186	1.6000e-003		0.0687	0.0687		0.0638	0.0638	0.0000	139.9796	139.9796	0.0403	0.0000	140.9873
Total	**0.1351**	**1.3646**	**0.9186**	**1.6000e-003**	**0.2637**	**0.0687**	**0.3324**	**0.0399**	**0.0638**	**0.1037**	**0.0000**	**139.9796**	**139.9796**	**0.0403**	**0.0000**	**140.9873**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9500e-003	2.3800e-003	0.0263	7.0000e-005	7.0000e-003	6.0000e-005	7.0600e-003	1.8600e-003	6.0000e-005	1.9100e-003	0.0000	6.5264	6.5264	2.1000e-004	0.0000	6.5316
Total	**2.9500e-003**	**2.3800e-003**	**0.0263**	**7.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8600e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**6.5264**	**6.5264**	**2.1000e-004**	**0.0000**	**6.5316**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1029	0.0000	0.1029	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.0829	0.9938	1.6000e-003		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	139.9794	139.9794	0.0403	0.0000	140.9871
Total	**0.0191**	**0.0829**	**0.9938**	**1.6000e-003**	**0.1029**	**2.5500e-003**	**0.1054**	**0.0156**	**2.5500e-003**	**0.0181**	**0.0000**	**139.9794**	**139.9794**	**0.0403**	**0.0000**	**140.9871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9500e-003	2.3800e-003	0.0263	7.0000e-005	7.0000e-003	6.0000e-005	7.0600e-003	1.8600e-003	6.0000e-005	1.9100e-003	0.0000	6.5264	6.5264	2.1000e-004	0.0000	6.5316
Total	**2.9500e-003**	**2.3800e-003**	**0.0263**	**7.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8600e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**6.5264**	**6.5264**	**2.1000e-004**	**0.0000**	**6.5316**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1122	0.0000	0.1122	0.0574	0.0000	0.0574	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0757	0.8534	0.5433	1.0500e-003		0.0370	0.0370		0.0340	0.0340	0.0000	92.6233	92.6233	0.0300	0.0000	93.3722
Total	**0.0757**	**0.8534**	**0.5433**	**1.0500e-003**	**0.1122**	**0.0370**	**0.1491**	**0.0574**	**0.0340**	**0.0914**	**0.0000**	**92.6233**	**92.6233**	**0.0300**	**0.0000**	**93.3722**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753
Total	**1.5700e-003**	**1.2700e-003**	**0.0140**	**4.0000e-005**	**3.7300e-003**	**3.0000e-005**	**3.7600e-003**	**9.9000e-004**	**3.0000e-005**	**1.0200e-003**	**0.0000**	**3.4726**	**3.4726**	**1.1000e-004**	**0.0000**	**3.4753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0438	0.0000	0.0438	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0130	0.0561	0.5610	1.0500e-003		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	92.6232	92.6232	0.0300	0.0000	93.3721
Total	**0.0130**	**0.0561**	**0.5610**	**1.0500e-003**	**0.0438**	**1.7300e-003**	**0.0455**	**0.0224**	**1.7300e-003**	**0.0241**	**0.0000**	**92.6232**	**92.6232**	**0.0300**	**0.0000**	**93.3721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753

Total	**1.5700e-003**	**1.2700e-003**	**0.0140**	**4.0000e-005**	**3.7300e-003**	**3.0000e-005**	**3.7600e-003**	**9.9000e-004**	**3.0000e-005**	**1.0200e-003**	**0.0000**	**3.4726**	**3.4726**	**1.1000e-004**	**0.0000**	**3.4753**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0273	0.2644	0.2396	3.2000e-004		0.0179	0.0179		0.0165	0.0165	0.0000	28.3268	28.3268	9.1600e-003	0.0000	28.5559
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0339**	**0.2644**	**0.2396**	**3.2000e-004**		**0.0179**	**0.0179**		**0.0165**	**0.0165**	**0.0000**	**28.3268**	**28.3268**	**9.1600e-003**	**0.0000**	**28.5559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.0508	0.2438	3.2000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	28.3268	28.3268	9.1600e-003	0.0000	28.5558
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0114**	**0.0508**	**0.2438**	**3.2000e-004**		**5.3000e-004**	**5.3000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**28.3268**	**28.3268**	**9.1600e-003**	**0.0000**	**28.5558**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.8190	0.0000	0.8190	0.4502	0.0000	0.4502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1824	1.8991	0.9495	1.6900e-003		0.0981	0.0981		0.0903	0.0903	0.0000	148.4601	148.4601	0.0480	0.0000	149.6605
Total	**0.1824**	**1.8991**	**0.9495**	**1.6900e-003**	**0.8190**	**0.0981**	**0.9171**	**0.4502**	**0.0903**	**0.5405**	**0.0000**	**148.4601**	**148.4601**	**0.0480**	**0.0000**	**149.6605**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3194	0.0000	0.3194	0.1756	0.0000	0.1756	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0896	0.9195	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.4599	148.4599	0.0480	0.0000	149.6603
Total	**0.0207**	**0.0896**	**0.9195**	**1.6900e-003**	**0.3194**	**2.7600e-003**	**0.3222**	**0.1756**	**2.7600e-003**	**0.1783**	**0.0000**	**148.4599**	**148.4599**	**0.0480**	**0.0000**	**149.6603**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1059	0.0000	0.1059	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0712	0.8032	0.5113	9.9000e-004		0.0348	0.0348		0.0320	0.0320	0.0000	87.1749	87.1749	0.0282	0.0000	87.8797
Total	**0.0712**	**0.8032**	**0.5113**	**9.9000e-004**	**0.1059**	**0.0348**	**0.1407**	**0.0540**	**0.0320**	**0.0860**	**0.0000**	**87.1749**	**87.1749**	**0.0282**	**0.0000**	**87.8797**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0413	0.0000	0.0413	0.0211	0.0000	0.0211	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0528	0.5280	9.9000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	87.1748	87.1748	0.0282	0.0000	87.8796
Total	**0.0122**	**0.0528**	**0.5280**	**9.9000e-004**	**0.0413**	**1.6200e-003**	**0.0429**	**0.0211**	**1.6200e-003**	**0.0227**	**0.0000**	**87.1748**	**87.1748**	**0.0282**	**0.0000**	**87.8796**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709

Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1689	1.6933	1.1094	1.9800e-003		0.0846	0.0846		0.0786	0.0786	0.0000	173.3929	173.3929	0.0490	0.0000	174.6166
Total	**0.1689**	**1.6933**	**1.1094**	**1.9800e-003**		**0.0846**	**0.0846**		**0.0786**	**0.0786**	**0.0000**	**173.3929**	**173.3929**	**0.0490**	**0.0000**	**174.6166**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0236	0.1022	1.1873	1.9800e-003		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	173.3927	173.3927	0.0490	0.0000	174.6164
Total	**0.0236**	**0.1022**	**1.1873**	**1.9800e-003**		**3.1400e-003**	**3.1400e-003**		**3.1400e-003**	**3.1400e-003**	**0.0000**	**173.3927**	**173.3927**	**0.0490**	**0.0000**	**174.6164**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.1519	1.5092	1.0351	1.8600e-003		0.0745	0.0745		0.0692	0.0692	0.0000	163.2038	163.2038	0.0459	0.0000	164.3522
Total	**0.1519**	**1.5092**	**1.0351**	**1.8600e-003**		**0.0745**	**0.0745**		**0.0692**	**0.0692**	**0.0000**	**163.2038**	**163.2038**	**0.0459**	**0.0000**	**164.3522**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	2.4100e-003	0.0272	8.0000e-005	7.8900e-003	7.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.1202	7.1202	2.1000e-004	0.0000	7.1254
Total	**3.1000e-003**	**2.4100e-003**	**0.0272**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.1202**	**7.1202**	**2.1000e-004**	**0.0000**	**7.1254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0222	0.0962	1.1174	1.8600e-003		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	163.2036	163.2036	0.0459	0.0000	164.3520
Total	**0.0222**	**0.0962**	**1.1174**	**1.8600e-003**		**2.9600e-003**	**2.9600e-003**		**2.9600e-003**	**2.9600e-003**	**0.0000**	**163.2036**	**163.2036**	**0.0459**	**0.0000**	**164.3520**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	2.4100e-003	0.0272	8.0000e-005	7.8900e-003	7.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.1202	7.1202	2.1000e-004	0.0000	7.1254
Total	**3.1000e-003**	**2.4100e-003**	**0.0272**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.1202**	**7.1202**	**2.1000e-004**	**0.0000**	**7.1254**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2162	1.9570	1.7186	2.7500e-003		0.1139	0.1139		0.1071	0.1071	0.0000	236.2422	236.2422	0.0576	0.0000	237.6831
Total	**0.2162**	**1.9570**	**1.7186**	**2.7500e-003**		**0.1139**	**0.1139**		**0.1071**	**0.1071**	**0.0000**	**236.2422**	**236.2422**	**0.0576**	**0.0000**	**237.6831**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	1.9288	0.5221	4.5700e-003	0.1121	8.9700e-003	0.1211	0.0324	8.5800e-003	0.0409	0.0000	442.1738	442.1738	0.0281	0.0000	442.8762
Worker	0.1954	0.1576	1.7424	4.7900e-003	0.4639	3.9600e-003	0.4678	0.1232	3.6400e-003	0.1268	0.0000	432.3377	432.3377	0.0136	0.0000	432.6783
Total	**0.2600**	**2.0864**	**2.2646**	**9.3600e-003**	**0.5760**	**0.0129**	**0.5889**	**0.1556**	**0.0122**	**0.1678**	**0.0000**	**874.5115**	**874.5115**	**0.0417**	**0.0000**	**875.5545**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.2858	1.8085	2.7500e-003		0.0127	0.0127		0.0127	0.0127	0.0000	236.2419	236.2419	0.0576	0.0000	237.6828
Total	**0.0639**	**0.2858**	**1.8085**	**2.7500e-003**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**236.2419**	**236.2419**	**0.0576**	**0.0000**	**237.6828**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	1.9288	0.5221	4.5700e-003	0.1121	8.9700e-003	0.1211	0.0324	8.5800e-003	0.0409	0.0000	442.1738	442.1738	0.0281	0.0000	442.8762
Worker	0.1954	0.1576	1.7424	4.7900e-003	0.4639	3.9600e-003	0.4678	0.1232	3.6400e-003	0.1268	0.0000	432.3377	432.3377	0.0136	0.0000	432.6783

Total	**0.2600**	**2.0864**	**2.2646**	**9.3600e-003**	**0.5760**	**0.0129**	**0.5889**	**0.1556**	**0.0122**	**0.1678**	**0.0000**	**874.5115**	**874.5115**	**0.0417**	**0.0000**	**875.5545**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4961	4.5498	4.3261	7.0300e-003		0.2502	0.2502		0.2352	0.2352	0.0000	604.5733	604.5733	0.1459	0.0000	608.2197
Total	**0.4961**	**4.5498**	**4.3261**	**7.0300e-003**		**0.2502**	**0.2502**		**0.2352**	**0.2352**	**0.0000**	**604.5733**	**604.5733**	**0.1459**	**0.0000**	**608.2197**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1414	4.4948	1.2186	0.0116	0.2869	9.1600e-003	0.2961	0.0828	8.7600e-003	0.0916	0.0000	1,122.6563	1,122.6563	0.0689	0.0000	1,124.3779
Worker	0.4661	0.3628	4.0960	0.0119	1.1869	9.7800e-003	1.1967	0.3153	9.0100e-003	0.3243	0.0000	1,071.1455	1,071.1455	0.0315	0.0000	1,071.9335
Total	**0.6075**	**4.8576**	**5.3146**	**0.0234**	**1.4738**	**0.0189**	**1.4928**	**0.3981**	**0.0178**	**0.4158**	**0.0000**	**2,193.8018**	**2,193.8018**	**0.1004**	**0.0000**	**2,196.3114**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1531	0.7150	4.6151	7.0300e-003		0.0292	0.0292		0.0292	0.0292	0.0000	604.5726	604.5726	0.1459	0.0000	608.2190
Total	**0.1531**	**0.7150**	**4.6151**	**7.0300e-003**		**0.0292**	**0.0292**		**0.0292**	**0.0292**	**0.0000**	**604.5726**	**604.5726**	**0.1459**	**0.0000**	**608.2190**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1414	4.4948	1.2186	0.0116	0.2869	9.1600e-003	0.2961	0.0828	8.7600e-003	0.0916	0.0000	1,122.6563	1,122.6563	0.0689	0.0000	1,124.3779
Worker	0.4661	0.3628	4.0960	0.0119	1.1869	9.7800e-003	1.1967	0.3153	9.0100e-003	0.3243	0.0000	1,071.1455	1,071.1455	0.0315	0.0000	1,071.9335
Total	**0.6075**	**4.8576**	**5.3146**	**0.0234**	**1.4738**	**0.0189**	**1.4928**	**0.3981**	**0.0178**	**0.4158**	**0.0000**	**2,193.8018**	**2,193.8018**	**0.1004**	**0.0000**	**2,196.3114**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.0512	0.4685	0.4909	8.1000e-004		0.0243	0.0243		0.0228	0.0228	0.0000	69.5176	69.5176	0.0167	0.0000	69.9339
Total	**0.0512**	**0.4685**	**0.4909**	**8.1000e-004**		**0.0243**	**0.0243**		**0.0228**	**0.0228**	**0.0000**	**69.5176**	**69.5176**	**0.0167**	**0.0000**	**69.9339**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.4908	0.1325	1.3200e-003	0.0330	9.2000e-004	0.0339	9.5200e-003	8.8000e-004	0.0104	0.0000	127.9076	127.9076	7.6400e-003	0.0000	128.0986
Worker	0.0502	0.0377	0.4338	1.3100e-003	0.1364	1.0900e-003	0.1375	0.0362	1.0000e-003	0.0372	0.0000	118.7923	118.7923	3.2700e-003	0.0000	118.8741
Total	**0.0655**	**0.5285**	**0.5663**	**2.6300e-003**	**0.1694**	**2.0100e-003**	**0.1714**	**0.0458**	**1.8800e-003**	**0.0476**	**0.0000**	**246.6998**	**246.6998**	**0.0109**	**0.0000**	**246.9726**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0168	0.0808	0.5298	8.1000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	69.5175	69.5175	0.0167	0.0000	69.9339
Total	**0.0168**	**0.0808**	**0.5298**	**8.1000e-004**		**3.0500e-003**	**3.0500e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**69.5175**	**69.5175**	**0.0167**	**0.0000**	**69.9339**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.4908	0.1325	1.3200e-003	0.0330	9.2000e-004	0.0339	9.5200e-003	8.8000e-004	0.0104	0.0000	127.9076	127.9076	7.6400e-003	0.0000	128.0986
Worker	0.0502	0.0377	0.4338	1.3100e-003	0.1364	1.0900e-003	0.1375	0.0362	1.0000e-003	0.0372	0.0000	118.7923	118.7923	3.2700e-003	0.0000	118.8741
Total	**0.0655**	**0.5285**	**0.5663**	**2.6300e-003**	**0.1694**	**2.0100e-003**	**0.1714**	**0.0458**	**1.8800e-003**	**0.0476**	**0.0000**	**246.6998**	**246.6998**	**0.0109**	**0.0000**	**246.9726**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0163	0.1680	0.1905	3.0000e-004		8.8100e-003	8.8100e-003		8.1100e-003	8.1100e-003	0.0000	26.0305	26.0305	8.4200e-003	0.0000	26.2410
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0229**	**0.1680**	**0.1905**	**3.0000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1100e-003**	**8.1100e-003**	**0.0000**	**26.0305**	**26.0305**	**8.4200e-003**	**0.0000**	**26.2410**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.5000e-004	7.3700e-003	2.0000e-005	2.1400e-003	2.0000e-005	2.1500e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.9284	1.9284	6.0000e-005	0.0000	1.9298
Total	**8.4000e-004**	**6.5000e-004**	**7.3700e-003**	**2.0000e-005**	**2.1400e-003**	**2.0000e-005**	**2.1500e-003**	**5.7000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**1.9284**	**1.9284**	**6.0000e-005**	**0.0000**	**1.9298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6500e-003	0.0158	0.2248	3.0000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	26.0305	26.0305	8.4200e-003	0.0000	26.2410
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0102**	**0.0158**	**0.2248**	**3.0000e-004**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**26.0305**	**26.0305**	**8.4200e-003**	**0.0000**	**26.2410**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.5000e-004	7.3700e-003	2.0000e-005	2.1400e-003	2.0000e-005	2.1500e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.9284	1.9284	6.0000e-005	0.0000	1.9298

Total	**8.4000e-004**	**6.5000e-004**	**7.3700e-003**	**2.0000e-005**	**2.1400e-003**	**2.0000e-005**	**2.1500e-003**	**5.7000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**1.9284**	**1.9284**	**6.0000e-005**	**0.0000**	**1.9298**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.1042	0.1342	2.2000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	18.8941	18.8941	1.2300e-003	0.0000	18.9248
Total	**0.3370**	**0.1042**	**0.1342**	**2.2000e-004**		**6.0500e-003**	**6.0500e-003**		**6.0500e-003**	**6.0500e-003**	**0.0000**	**18.8941**	**18.8941**	**1.2300e-003**	**0.0000**	**18.9248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	9.2900e-003	0.1070	3.2000e-004	0.0337	2.7000e-004	0.0339	8.9400e-003	2.5000e-004	9.1900e-003	0.0000	29.3021	29.3021	8.1000e-004	0.0000	29.3223
Total	**0.0124**	**9.2900e-003**	**0.1070**	**3.2000e-004**	**0.0337**	**2.7000e-004**	**0.0339**	**8.9400e-003**	**2.5000e-004**	**9.1900e-003**	**0.0000**	**29.3021**	**29.3021**	**8.1000e-004**	**0.0000**	**29.3223**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	9.5300e-003	0.1356	2.2000e-004		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	18.8941	18.8941	1.2300e-003	0.0000	18.9248
Total	**0.3241**	**9.5300e-003**	**0.1356**	**2.2000e-004**		**2.9000e-004**	**2.9000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**18.8941**	**18.8941**	**1.2300e-003**	**0.0000**	**18.9248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	9.2900e-003	0.1070	3.2000e-004	0.0337	2.7000e-004	0.0339	8.9400e-003	2.5000e-004	9.1900e-003	0.0000	29.3021	29.3021	8.1000e-004	0.0000	29.3223
Total	**0.0124**	**9.2900e-003**	**0.1070**	**3.2000e-004**	**0.0337**	**2.7000e-004**	**0.0339**	**8.9400e-003**	**2.5000e-004**	**9.1900e-003**	**0.0000**	**29.3021**	**29.3021**	**8.1000e-004**	**0.0000**	**29.3223**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Unmitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,308.2437	3,308.2437	0.1366	0.0283	3,320.0790
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,355.8776	3,355.8776	0.1386	0.0287	3,367.8834
NaturalGas Mitigated	0.0347	0.3157	0.2652	1.8900e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.7083	343.7083	6.5900e-003	6.3000e-003	345.7508
NaturalGas Unmitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815
Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.6548e+006	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	88.3066	88.3066	1.6900e-003	1.6200e-003	88.8314
Government Office Building	1.66471e+006	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003	0.0000	88.8354	88.8354	1.7000e-003	1.6300e-003	89.3633
Government Office Building	3.12133e+006	0.0168	0.1530	0.1285	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.5663	166.5663	3.1900e-003	3.0500e-003	167.5561
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0347**	**0.3157**	**0.2652**	**1.9000e-003**		**0.0240**	**0.0240**		**0.0240**	**0.0240**	**0.0000**	**343.7083**	**343.7083**	**6.5800e-003**	**6.3000e-003**	**345.7508**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	691.1950	0.0285	5.9000e-003	693.6678
Government Office Building	2.18232e+006	695.3339	0.0287	5.9400e-003	697.8215
Government Office Building	4.09185e+006	1,303.7511	0.0538	0.0111	1,308.4153
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	535.7912	0.0221	4.5800e-003	537.7081
Unenclosed Parking with Elevator	407400	129.8064	5.3600e-003	1.1100e-003	130.2708
Total		**3,355.8776**	**0.1386**	**0.0287**	**3,367.8834**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.13092e+006	678.9568	0.0280	5.8000e-003	681.3858
Government Office Building	2.14368e+006	683.0224	0.0282	5.8300e-003	685.4659
Government Office Building	4.0194e+006	1,280.6670	0.0529	0.0109	1,285.2486
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	535.7912	0.0221	4.5800e-003	537.7081
Unenclosed Parking with Elevator	407400	129.8064	5.3600e-003	1.1100e-003	130.2708
Total		**3,308.2437**	**0.1366**	**0.0283**	**3,320.0790**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Unmitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	210.2868	1.3842	0.0342	255.0757
Unmitigated	210.2868	1.3842	0.0342	255.0757

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	42.2303 / 0	188.6015	1.3833	0.0340	233.3128
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 6.126	21.6853	9.0000e-004	1.9000e-004	21.7629
Unenclosed Parking with	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**210.2868**	**1.3842**	**0.0342**	**255.0757**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	42.2303 / 0	188.6015	1.3833	0.0340	233.3128
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 6.126	21.6853	9.0000e-004	1.9000e-004	21.7629
Unenclosed Parking with	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**210.2868**	**1.3842**	**0.0342**	**255.0757**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	51.3456	3.0344	0.0000	127.2064
Unmitigated	146.7016	8.6698	0.0000	363.4469

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	722.7	146.7016	8.6698	0.0000	363.4469
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**146.7016**	**8.6698**	**0.0000**	**363.4469**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	252.945	51.3456	3.0344	0.0000	127.2064
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**51.3456**	**3.0344**	**0.0000**	**127.2064**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

11.0 Vegetation

Unmitigated Construction Health Risk Assessment

Localized DPM Emissions

Start	10/1/2019	1/1/2020	1/1/2022
End	12/31/2019	12/31/2021	4/5/2022
Total Workdays	66	523	67

0.26 Years in 2<5 age bin

Off-Road Heavy Duty Construction Equipment Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	DPM: Exhaust PM10 (lb/day)	DPM: Emission Rate per work day (g/s)	Days per Age Group: 3rd Trimester	Days per Age Group: 0<2	Days per Age Group: 2<5	Days per Age Group: 16+	Weighted DPM Emissions per Age Bin (g/s): 3rd Trimester	Weighted DPM Emissions per Age Bin (g/s): 0<2	Weighted DPM Emissions per Age Bin (g/s): 2<5
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2.0138	0.0317	66	21			2.09E+00	6.66E-01	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	5.7710	0.0909		32			0.00E+00	2.91E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2.1739	0.0342		65			0.00E+00	2.23E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	1.9351	0.0305		71			0.00E+00	2.16E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2.1739	0.0342		34			0.00E+00	1.16E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	1.1200	0.0176		32			0.00E+00	5.64E-01	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	5.7710	0.0909		34			0.00E+00	3.09E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2.1739	0.0342		32			0.00E+00	1.10E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	1.6050	0.0253		198			0.00E+00	5.01E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	1.9231	0.0303		363	30		0.00E+00	1.10E+01	9.09E-01
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.6777	0.0107		26			0.00E+00	2.78E-01	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.3269	0.0051			37		0.00E+00	0.00E+00	1.91E-01
										ISD	**0.00E+00**	**4.33E-02**	**1.64E-02**
										CAMPUS-All Phases (excluding Remediation)	**3.17E-02**	**1.01E-02**	**0.00E+00**
										CAMPUS-Soil Remediation	**0.00E+00**	**4.26E-03**	**0.00E+00**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	Weighted DPM Emissions per Age Bin (g/s): 3rd Trimester	Weighted DPM Emissions per Age Bin (g/s): 0<2	Weighted DPM Emissions per Age Bin (g/s): 2<5
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.03E-03	6.46E-04	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	0.00E+00	6.40E-03	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	0.00E+00	7.77E-03	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	0.00E+00	7.17E-03	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	0.00E+00	1.49E-03	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	0.00E+00	3.15E-03	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**0.00E+00**	**2.37E-05**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.08E-05**	**1.49E-05**	**0.00E+00**
										CAMPUS-Soil Remediation	**0.00E+00**	**1.22E-05**	**0.00E+00**
										Total Running	**3.08E-05**	**5.09E-05**	**0.00E+00**

Idling Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	Weighted DPM Emissions per Age Bin (g/s): 3rd Trimester	Weighted DPM Emissions per Age Bin (g/s): 0<2	Weighted DPM Emissions per Age Bin (g/s): 2<5
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.14E-04	6.80E-05	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	0.00E+00	5.11E-04	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	0.00E+00	6.20E-04	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	0.00E+00	5.72E-04	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	0.00E+00	1.19E-04	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	0.00E+00	2.52E-04	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**0.00E+00**	**1.89E-06**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.24E-06**	**1.22E-06**	**0.00E+00**
										CAMPUS-Soil Remediation	**0.00E+00**	**9.77E-07**	**0.00E+00**
										Total Idle	**3.24E-06**	**4.09E-06**	**0.00E+00**

AERMOD Concentrations

			ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
XY	X	Y	AERMOD CONCENTRATION (ug/m^3) @ 1g/s				
3928883754211	392888	3754211	2.64653	0.47002	0.10	0.06	0.25

3rd Trimester Age Bin

Parameter		Age Bins		
		3rd Tri	0 < 2	2 < 5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency unitless (days/days)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2	0.26
FAH	Fraction of Time at Home	1.00	1.00	1.00
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**[= CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$	1.1	1.1	1.1
	Diesel Particulate Matter			

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392888.00	3754211.00	0.00E+00	1.49E-02	0.00E+00	1.93E-06	7.99E-07

3rd Trimester Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	3rd Trimester Dose (mg/kg-day)				
392888.00	3754211.00	0.00E+00	5.16E-06	0.00E+00	6.68E-10	2.77E-10

0<2 Age Bin

Parameter		Age Bins		
		3rd Tri	0 < 2	2<5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency unitless (days/days)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2	0.26
FAH	Fraction of Time at Home	1.00	1.00	1.00
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**[= CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$ Diesel Particulate Matter	1.1	1.1	1.1

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392888.00	3754211.00	1.15E-01	4.77E-03	4.15E-04	3.19E-06	1.01E-06

0<2 Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	0-2 Year Dose (mg/kg-day)				
392888.00	3754211.00	1.20E-04	4.98E-06	4.33E-07	3.34E-09	1.06E-09

2<5 Age Bin

Parameter		Age Bins		
		3rd Tri	0 < 2	2 <5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency unitless (days/days)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2	0.26
FAH	Fraction of Time at Home	1.00	1.00	1.00
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**[= CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor (mg/kg-day)$^{-1}$	1.1	1.1	1.1
	Diesel Particulate Matter			

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392888.00	3754211.00	4.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2<5 Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	2<5 Dose (mg/kg-day)				
392888.00	3754211.00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Cancer Risk Calculations

Parameter		Age Bins		
		3rd Trimester	0 < 2	2 < 5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency (days/year)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2.00	0.26
FAH	Fraction of Time at Home	1	1	1
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**Dose= [CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$ (DPM)	1.1	1.1	1.1
Cancer Conversion Factor	1,000,000			
RISK	**Cancer Risk (in one million) =[[DOSE × CPF × ASF x FAH x ED]/ AT]*1,000,000**			

Receptor		3rd Trimester	0 < 2	2<5	Receptor		3rd Trimester	0 < 2	2<5	Total Cancer Risk (in one million)
X	Y	Dose (mg/kg-day)			X	Y	Cancer Risk (in one million)			
392888.00	3754211.00	5.16E-06	1.25E-04	2.63E-05	392888.00	3754211.00	2.03E-01	3.93E+01	3.19E-01	**39.84**

Localized DPM Emissions

Start	10/1/2019	10/1/2020	10/1/2021
End	9/30/2020	9/30/2021	4/5/2022
Total Workdays	262	261	133

Off-Road Heavy Duty Construction Equipment Emission Rates

					DPM		Days per Age Group			Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	Exhaust PM10 (lb/day)	Emission Rate per work day (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2.0138	0.0317	87			2.76E+00	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	5.7710	0.0909	32			2.91E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2.1739	0.0342	65			2.23E+00	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	1.9351	0.0305	71			2.16E+00	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2.1739	0.0342	34			1.16E+00	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	1.1200	0.0176	32			5.64E-01	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	5.7710	0.0909	34			3.09E+00	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2.1739	0.0342	32			1.10E+00	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	1.6050	0.0253	36	162		9.10E-01	4.10E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	1.9231	0.0303	36	261	96	1.09E+00	7.91E+00	2.91E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.6777	0.0107		26		0.00E+00	2.78E-01	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.3269	0.0051			37	0.00E+00	0.00E+00	1.91E-01
									ISD	**3.19E-02**	**4.70E-02**	**2.33E-02**
									CAMPUS-All Phases (excluding Remediation)	**2.82E-02**	**0.00E+00**	**0.00E+00**
									CAMPUS-Soil Remediation	**8.49E-03**	**0.00E+00**	**0.00E+00**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.68E-03	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	6.40E-03	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	7.77E-03	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	7.17E-03	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	1.49E-03	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	3.15E-03	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**4.74E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.76E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**2.44E-05**	**0.00E+00**	**0.00E+00**
										Total Running	**1.09E-04**	**0.00E+00**	**0.00E+00**

Idling Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.82E-04	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	5.11E-04	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	6.20E-04	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	5.72E-04	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	1.19E-04	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	2.52E-04	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**3.78E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.26E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**1.95E-06**	**0.00E+00**	**0.00E+00**
										Total Idle	**8.99E-06**	**0.00E+00**	**0.00E+00**

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392428	3753451	RESIDENT	0.0045	0.0029	0.0014	0.0985	0.1245	0.0617	**0.124**
392888	3754211	RESIDENT	0.0985	**0.1245**	0.0617				

Construction Health Risk Assessment
Maximum Non-cancer Chronic Hazards / Toxicological Endpoints -Without Mitigation *

		Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI	ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	Threshold	Over?
Project:																						
Max Residential Receptor		DPM	5.00E+00	1.24E-01	1.00E+00	1.24E-01	**2.49E-02**	--	-	-	-	-	-	-	-	-	-	-	0.0249	-	1.0	NO

Sources:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values" and "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," https://www.arb.ca.gov/toxics/healthval/contable.pdf
Tables last updated: August 20, 2018.

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Region	SOUTH COAST AQMD
Model Year	Aggregated
Speed	Aggregated
Fuel	DSL
Vehicle Category	HHDT

Row Labels	Sum of PM10_RUNEX
2019	0.07808555
2020	0.06248521
2021	0.052203787
2022	0.029646183
Grand Total	**0.22242073**

HHDT Running Exhaust Emissions

Year	g/mi
2019	0.078
2020	0.062
2021	0.052
2022	0.030

Source: EMFAC2017 (Web database)

Localized DPM Emissions

Start	10/1/2019	1/1/2020	10/1/2019
End	12/31/2019	12/31/2021	4/5/2022
Total Workdays	66	523	656

2.51

Off-Road Heavy Duty Construction Equipment Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	DPM: Exhaust PM10 (lb/day)	DPM: Emission Rate per work day (g/s)	Days per Age Group: 3rd Trimester	0<2	2<16	16+	Weighted DPM Emissions per Age Bin (g/s): 2<16
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2.0138	0.0317			87		2.76E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	5.7710	0.0909			32		2.91E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2.1739	0.0342			65		2.23E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	1.9351	0.0305			71		2.16E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2.1739	0.0342			34		1.16E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	1.1200	0.0176			32		5.64E-01
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	5.7710	0.0909			34		3.09E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2.1739	0.0342			32		1.10E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	1.6050	0.0253			198		5.01E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	1.9231	0.0303			393		1.19E+01
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.6777	0.0107			26		2.78E-01
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.3269	0.0051			37		1.91E-01
										ISD	**3.62E-02**
										CAMPUS-All Phases (excluding Remediation)	**1.13E-02**
										CAMPUS-Soil Remediation	**3.39E-03**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	Weighted DPM Emissions per Age Bin (g/s): 2<16
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.68E-03
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	6.40E-03
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	7.77E-03
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	7.17E-03
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	1.49E-03
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	3.15E-03
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00
										ISD	**1.89E-05**
										CAMPUS-All Phases (excluding Remediation)	**1.50E-05**
										CAMPUS-Soil Remediation	**9.76E-06**
										Total Running	**4.37E-05**

Idling Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	Weighted DPM Emissions: 2<16
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.82E-04
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	5.11E-04
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	6.20E-04
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	5.72E-04
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	1.19E-04
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	2.52E-04
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00
										ISD	**1.51E-06**
										CAMPUS-All Phases (excluding Remediation)	**1.30E-06**
										CAMPUS-Soil Remediation	**7.79E-07**
										Total Idle	**3.59E-06**

AERMOD Concentrations

XY	X	Y	ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
			AERMOD CONCENTRATION (ug/m^3) @ 1g/s				
3926483753951	392648	3753951	0.3062	2.67398	0.07	0.09	0.73
3928883754371	392888	3754371	2.65424	0.37126	0.19329	0.07916	0.24301

2<16 Age Bin

Parameter		Age Bins
		2 <16
DBR	Daily Breathing Rate (L/kg (body weight) per day)	631
A	Inhalation absorption factor (default = 1).	1
EF	Exposure Frequency unitless (days/days)	0.49
ED	Exposure Duration (years)	2.51
WAF	Worker Adjustment Factor	4.20
AT	Averaged Exposure Time Period (years)	70
ASF	Age Sensitvity Factor	3
CF	Conversion Factor	1.00E-06
DOSE	**= [CONC × WAF x DBR × A × EF × CF] (mg/kg-day)**	
CPF	Cancer Potency Factor (mg/kg-day)$^{-1}$	1.1
	Diesel Particulate Matter	

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392648.00	3753951.00	1.11E-02	3.01E-02	2.34E-04	3.75E-06	2.63E-06
392888.00	3754371.00	9.60E-02	4.19E-03	6.56E-04	3.46E-06	8.73E-07

2<16 Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	2<16 Dose (mg/kg-day)				
392648.00	3753951.00	1.45E-05	3.94E-05	3.06E-07	4.91E-09	3.43E-09
392888.00	3754371.00	1.25E-04	5.47E-06	8.57E-07	4.52E-09	1.14E-09

Cancer Risk Calculations

Parameter		Age Bins
		2 < 16
DBR	Daily Breathing Rate (L/kg (body weight) per day)	631
A	Inhalation absorption factor (default = 1).	1
EF	Exposure Frequency (days/year)	0.49
ED	Exposure Duration (years)	2.51
WAF	Worker Adjustment Factor	4.2
AT	Averaged Exposure Time Period (years)	70
ASF	Age Sensitvity Factor	3
CF	Conversion Factor	1.00E-06
DOSE	**Dose= [CONC × DBR × A × EF × CF] (mg/kg-day)**	
CPF	Cancer Potency Factor (mg/kg-day)$^{-1}$ (DPM)	1.1
Cancer Conversion Factor	1,000,000	
RISK	**Cancer Risk (in one million) =[[DOSE × CPF × ASF x ED]/ AT]*1,000,000**	

Max School Receptor Cancer Risk (per million)	Max Daycare Receptor Cancer Risk (per million)
6.4	15.61

Receptor		2<16	Concatenated Receptor	Receptor		2<16	Total Cancer Risk
X	Y	Dose (mg/kg-	(XY)	X	Y	Cancer Risk	(in one million)
392648.00	3753951.00	5.42E-05	3926483753951	392648.00	3753951.00	6.42E+00	6.42E+00
392888	3754371	1.32E-04	3928883754371	392888.00	3754371.00	1.56E+01	1.56E+01

Localized DPM Emissions

Start	10/1/2019	10/1/2020	10/1/2021
End	9/30/2020	9/30/2021	4/5/2022
Total Workdays	262	261	133

Off-Road Heavy Duty Construction Equipment Emission Rates

					DPM		Days per Age Group				Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	Exhaust PM10 (lb/day)	Emission Rate per work day (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3		CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2.0138	0.0317	87				2.76E+00	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	5.7710	0.0909	32				2.91E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2.1739	0.0342	65				2.23E+00	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	1.9351	0.0305	71				2.16E+00	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2.1739	0.0342	34				1.16E+00	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	1.1200	0.0176	32				5.64E-01	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	5.7710	0.0909	34				3.09E+00	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2.1739	0.0342	32				1.10E+00	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	1.6050	0.0253	36	162			9.10E-01	4.10E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	1.9231	0.0303	36	261	96		1.09E+00	7.91E+00	2.91E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.6777	0.0107		26			0.00E+00	2.78E-01	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.3269	0.0051			37		0.00E+00	0.00E+00	1.91E-01
										ISD	**3.19E-02**	**4.70E-02**	**2.33E-02**
										CAMPUS-All Phases (excluding Remediation)	**2.82E-02**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**8.49E-03**	**0.00E+00**	**0.00E+00**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.68E-03	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	6.40E-03	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	7.77E-03	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	7.17E-03	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	1.49E-03	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	3.15E-03	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**4.74E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.76E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**2.44E-05**	**0.00E+00**	**0.00E+00**
										Total Running	**1.09E-04**	**0.00E+00**	**0.00E+00**

Idling Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.82E-04	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	5.11E-04	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	6.20E-04	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	5.72E-04	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	1.19E-04	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	2.52E-04	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**3.78E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.26E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**1.95E-06**	**0.00E+00**	**0.00E+00**
										Total Idle	**8.99E-06**	**0.00E+00**	**0.00E+00**

			CSTN Year 1	CSTN Year 2	CSTN Year 3
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s		
392968	3753651	SCHOOL	0.0018	0.0011	0.0006
392928	3753671	SCHOOL	0.0020	0.0013	0.0006
392948	3753671	SCHOOL	0.0020	0.0012	0.0006
392968	3753671	SCHOOL	0.0019	0.0012	0.0006
392908	3753691	SCHOOL	0.0023	0.0015	0.0007
392928	3753691	SCHOOL	0.0022	0.0014	0.0007
392948	3753691	SCHOOL	0.0021	0.0013	0.0006
392968	3753691	SCHOOL	0.0020	0.0012	0.0006
392988	3753691	SCHOOL	0.0019	0.0012	0.0006
392868	3753711	SCHOOL	0.0027	0.0018	0.0009
392888	3753711	SCHOOL	0.0026	0.0016	0.0008
392908	3753711	SCHOOL	0.0024	0.0015	0.0008
392928	3753711	SCHOOL	0.0023	0.0015	0.0007
392948	3753711	SCHOOL	0.0022	0.0014	0.0007
392968	3753711	SCHOOL	0.0021	0.0013	0.0007
392988	3753711	SCHOOL	0.0020	0.0013	0.0006
393008	3753711	SCHOOL	0.0019	0.0012	0.0006
392828	3753731	SCHOOL	0.0033	0.0022	0.0011
392848	3753731	SCHOOL	0.0031	0.0020	0.0010
392868	3753731	SCHOOL	0.0029	0.0019	0.0009
392888	3753731	SCHOOL	0.0027	0.0018	0.0009
392908	3753731	SCHOOL	0.0026	0.0016	0.0008
392928	3753731	SCHOOL	0.0025	0.0015	0.0008
392948	3753731	SCHOOL	0.0023	0.0015	0.0007
392968	3753731	SCHOOL	0.0022	0.0014	0.0007
392988	3753731	SCHOOL	0.0021	0.0013	0.0007
393008	3753731	SCHOOL	0.0021	0.0013	0.0006
392808	3753751	SCHOOL	0.0039	0.0026	0.0013
392828	3753751	SCHOOL	0.0036	0.0024	0.0012
392848	3753751	SCHOOL	0.0033	0.0022	0.0011
392868	3753751	SCHOOL	0.0031	0.0020	0.0010
392888	3753751	SCHOOL	0.0029	0.0019	0.0009
392908	3753751	SCHOOL	0.0028	0.0018	0.0009
392928	3753751	SCHOOL	0.0026	0.0016	0.0008
392948	3753751	SCHOOL	0.0025	0.0016	0.0008
392968	3753751	SCHOOL	0.0024	0.0015	0.0007
392988	3753751	SCHOOL	0.0023	0.0014	0.0007
393008	3753751	SCHOOL	0.0022	0.0014	0.0007
393028	3753751	SCHOOL	0.0021	0.0013	0.0006
392768	3753771	SCHOOL	0.0050	0.0033	0.0016
392788	3753771	SCHOOL	0.0046	0.0030	0.0015
392808	3753771	SCHOOL	0.0042	0.0028	0.0014
392828	3753771	SCHOOL	0.0039	0.0026	0.0013
392848	3753771	SCHOOL	0.0036	0.0023	0.0012
392868	3753771	SCHOOL	0.0034	0.0022	0.0011
392888	3753771	SCHOOL	0.0032	0.0020	0.0010
392908	3753771	SCHOOL	0.0030	0.0019	0.0009
392928	3753771	SCHOOL	0.0028	0.0018	0.0009

CSTN Year 1	CSTN Year 2	CSTN Year 3	
Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
School			
0.0859	0.0144	0.0071	**0.086**
Daycare			
0.0969	0.1249	0.0618	**0.125**

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392948	3753771	SCHOOL	0.0027	0.0017	0.0008				
392968	3753771	SCHOOL	0.0025	0.0016	0.0008				
392988	3753771	SCHOOL	0.0024	0.0015	0.0007				
393008	3753771	SCHOOL	0.0023	0.0014	0.0007				
393028	3753771	SCHOOL	0.0022	0.0014	0.0007				
392728	3753791	SCHOOL	0.0068	0.0043	0.0021				
392748	3753791	SCHOOL	0.0061	0.0040	0.0020				
392768	3753791	SCHOOL	0.0056	0.0036	0.0018				
392788	3753791	SCHOOL	0.0051	0.0033	0.0016				
392808	3753791	SCHOOL	0.0046	0.0030	0.0015				
392828	3753791	SCHOOL	0.0043	0.0028	0.0014				
392848	3753791	SCHOOL	0.0039	0.0025	0.0013				
392868	3753791	SCHOOL	0.0037	0.0023	0.0012				
392888	3753791	SCHOOL	0.0034	0.0022	0.0011				
392908	3753791	SCHOOL	0.0032	0.0020	0.0010				
392928	3753791	SCHOOL	0.0030	0.0019	0.0009				
392948	3753791	SCHOOL	0.0028	0.0018	0.0009				
392968	3753791	SCHOOL	0.0027	0.0017	0.0008				
392988	3753791	SCHOOL	0.0026	0.0016	0.0008				
392688	3753811	SCHOOL	0.0097	0.0055	0.0027				
392708	3753811	SCHOOL	0.0087	0.0051	0.0025				
392728	3753811	SCHOOL	0.0077	0.0047	0.0023				
392748	3753811	SCHOOL	0.0069	0.0043	0.0022				
392768	3753811	SCHOOL	0.0062	0.0040	0.0020				
392788	3753811	SCHOOL	0.0056	0.0036	0.0018				
392808	3753811	SCHOOL	0.0051	0.0033	0.0016				
392828	3753811	SCHOOL	0.0047	0.0030	0.0015				
392848	3753811	SCHOOL	0.0043	0.0027	0.0014				
392868	3753811	SCHOOL	0.0040	0.0025	0.0012				
392888	3753811	SCHOOL	0.0037	0.0023	0.0011				
392908	3753811	SCHOOL	0.0035	0.0021	0.0011				
392928	3753811	SCHOOL	0.0032	0.0020	0.0010				
392948	3753811	SCHOOL	0.0031	0.0019	0.0009				
392968	3753811	SCHOOL	0.0029	0.0018	0.0009				
392668	3753831	SCHOOL	0.0127	0.0066	0.0033				
392688	3753831	SCHOOL	0.0113	0.0061	0.0030				
392708	3753831	SCHOOL	0.0101	0.0057	0.0028				
392728	3753831	SCHOOL	0.0089	0.0052	0.0026				
392748	3753831	SCHOOL	0.0079	0.0048	0.0024				
392768	3753831	SCHOOL	0.0070	0.0044	0.0022				
392788	3753831	SCHOOL	0.0063	0.0040	0.0020				
392808	3753831	SCHOOL	0.0057	0.0036	0.0018				
392828	3753831	SCHOOL	0.0052	0.0033	0.0016				
392848	3753831	SCHOOL	0.0047	0.0030	0.0015				
392868	3753831	SCHOOL	0.0044	0.0027	0.0014				
392888	3753831	SCHOOL	0.0040	0.0025	0.0012				
392908	3753831	SCHOOL	0.0038	0.0023	0.0011				
392928	3753831	SCHOOL	0.0035	0.0022	0.0011				

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392628	3753851	SCHOOL	0.0189	0.0082	0.0041				
392648	3753851	SCHOOL	0.0171	0.0078	0.0038				
392668	3753851	SCHOOL	0.0153	0.0073	0.0036				
392688	3753851	SCHOOL	0.0136	0.0068	0.0034				
392708	3753851	SCHOOL	0.0119	0.0063	0.0031				
392728	3753851	SCHOOL	0.0104	0.0058	0.0029				
392748	3753851	SCHOOL	0.0091	0.0053	0.0026				
392768	3753851	SCHOOL	0.0080	0.0048	0.0024				
392788	3753851	SCHOOL	0.0071	0.0044	0.0022				
392808	3753851	SCHOOL	0.0064	0.0040	0.0020				
392828	3753851	SCHOOL	0.0058	0.0036	0.0018				
392848	3753851	SCHOOL	0.0053	0.0033	0.0016				
392868	3753851	SCHOOL	0.0048	0.0030	0.0015				
392888	3753851	SCHOOL	0.0044	0.0027	0.0013				
392608	3753871	SCHOOL	0.0286	0.0095	0.0047				
392628	3753871	SCHOOL	0.0245	0.0091	0.0045				
392648	3753871	SCHOOL	0.0216	0.0087	0.0043				
392668	3753871	SCHOOL	0.0193	0.0082	0.0041				
392688	3753871	SCHOOL	0.0169	0.0076	0.0038				
392708	3753871	SCHOOL	0.0146	0.0071	0.0035				
392728	3753871	SCHOOL	0.0124	0.0065	0.0032				
392748	3753871	SCHOOL	0.0106	0.0060	0.0029				
392768	3753871	SCHOOL	0.0092	0.0054	0.0027				
392788	3753871	SCHOOL	0.0081	0.0049	0.0024				
392808	3753871	SCHOOL	0.0072	0.0044	0.0022				
392828	3753871	SCHOOL	0.0065	0.0040	0.0020				
392848	3753871	SCHOOL	0.0059	0.0036	0.0018				
392868	3753871	SCHOOL	0.0053	0.0032	0.0016				
392608	3753891	SCHOOL	0.0442	0.0106	0.0053				
392628	3753891	SCHOOL	0.0343	0.0102	0.0051				
392648	3753891	SCHOOL	0.0290	0.0098	0.0048				
392668	3753891	SCHOOL	0.0255	0.0092	0.0046				
392688	3753891	SCHOOL	0.0222	0.0086	0.0043				
392708	3753891	SCHOOL	0.0185	0.0080	0.0040				
392728	3753891	SCHOOL	0.0152	0.0074	0.0036				
392748	3753891	SCHOOL	0.0127	0.0067	0.0033				
392768	3753891	SCHOOL	0.0109	0.0061	0.0030				
392788	3753891	SCHOOL	0.0095	0.0055	0.0027				
392808	3753891	SCHOOL	0.0083	0.0049	0.0024				
392828	3753891	SCHOOL	0.0074	0.0044	0.0022				
392628	3753911	SCHOOL	0.0506	0.0115	0.0057				
392648	3753911	SCHOOL	0.0407	0.0110	0.0055				
392668	3753911	SCHOOL	0.0357	0.0105	0.0052				
392688	3753911	SCHOOL	0.0314	0.0098	0.0049				
392708	3753911	SCHOOL	0.0250	0.0091	0.0045				
392728	3753911	SCHOOL	0.0196	0.0084	0.0041				
392748	3753911	SCHOOL	0.0159	0.0076	0.0038				
392768	3753911	SCHOOL	0.0132	0.0069	0.0034				

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392788	3753911	SCHOOL	0.0112	0.0062	0.0031				
392808	3753911	SCHOOL	0.0097	0.0055	0.0027				
392628	3753931	SCHOOL	0.0748	0.0131	0.0065				
392648	3753931	SCHOOL	0.0593	0.0126	0.0062				
392668	3753931	SCHOOL	0.0531	0.0119	0.0059				
392728	3753931	SCHOOL	0.0281	0.0096	0.0047				
392748	3753931	SCHOOL	0.0213	0.0087	0.0043				
392768	3753931	SCHOOL	0.0168	0.0078	0.0039				
392648	3753951	SCHOOL	0.0859	0.0144	0.0071				
392728	3753951	SCHOOL	0.0469	0.0111	0.0055				
392748	3753951	SCHOOL	0.0311	0.0101	0.0050				
392908	3754351	DAYCARE	0.0935	0.1215	0.0601				
392928	3754351	DAYCARE	0.0736	0.0937	0.0464				
392888	3754371	DAYCARE	0.0967	0.1249	0.0618				
392908	3754371	DAYCARE	0.0799	0.1016	0.0503				
392928	3754371	DAYCARE	0.0655	0.0818	0.0405				
392868	3754391	DAYCARE	0.0969	0.1237	0.0613				
392888	3754391	DAYCARE	0.0826	0.1044	0.0517				
392908	3754391	DAYCARE	0.0700	0.0874	0.0433				
392928	3754391	DAYCARE	0.0591	0.0725	0.0359				
392948	3754391	DAYCARE	0.0496	0.0598	0.0296				
392868	3754411	DAYCARE	0.0831	0.1038	0.0514				
392888	3754411	DAYCARE	0.0722	0.0894	0.0443				
392908	3754411	DAYCARE	0.0625	0.0765	0.0379				
392928	3754411	DAYCARE	0.0538	0.0650	0.0322				
392948	3754411	DAYCARE	0.0461	0.0548	0.0272				
392888	3754431	DAYCARE	0.0642	0.0779	0.0386				
392908	3754431	DAYCARE	0.0565	0.0678	0.0336				
392928	3754431	DAYCARE	0.0494	0.0587	0.0291				

Construction Health Risk Assessment
Maximum Non-cancer Chronic Hazards / Toxicological Endpoints -Without Mitigation *

	Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI	ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	Threshold	Over?
Project:																					
Max School Receptor	DPM	5.00E+00	8.59E-02	1.00E+00	8.59E-02	**1.72E-02**	--	-	-	-	-	-	-	-	-	-	-	0.017	-	1.0	NO
Max Daycare Receptor	DPM	5.00E+00	1.25E-01	1.00E+00	1.25E-01	**2.50E-02**	--	-	-	-	-	-	-	-	-	-	-	0.0250	-	1.0	NO

Sources:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values" and "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," https://www.arb.ca.gov/toxics/healthval/contable.pdf
Tables last updated: August 20, 2018.

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Region	SOUTH COAST AQMD
Model Year	Aggregated
Speed	Aggregated
Fuel	DSL
Vehicle Category	HHDT

Row Labels	Sum of PM10_RUNEX
2019	0.07808555
2020	0.06248521
2021	0.052203787
2022	0.029646183
Grand Total	**0.22242073**

HHDT Running Exhaust Emissions

Year	g/mi
2019	0.078
2020	0.062
2021	0.052
2022	0.030

Source: EMFAC2017 (Web database)

Mitigated Construction Health Risk Assessment

Localized DPM Emissions

Start	10/1/2019	1/1/2020	1/1/2022
End	12/31/2019	12/31/2021	4/5/2022
Total Workdays	66	523	67

0.26 Years in 2<5 age bin

Off-Road Heavy Duty Construction Equipment Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	DPM: Exhaust PM10 (lb/day)	DPM: Emission Rate per work day (g/s)	Days per Age Group: 3rd Trimester	Days per Age Group: 0<2	Days per Age Group: 2<5	Days per Age Group: 16+	Weighted DPM Emissions per Age Bin (g/s): 3rd Trimester	Weighted DPM Emissions per Age Bin (g/s): 0<2	Weighted DPM Emissions per Age Bin (g/s): 2<5
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	0.0718	0.0011	66	21			7.46E-02	2.37E-02	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	0.1622	0.0026		32			0.00E+00	8.17E-02	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	0.1015	0.0016		65			0.00E+00	1.04E-01	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	0.0718	0.0011		71			0.00E+00	8.03E-02	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	0.1015	0.0016		34			0.00E+00	5.44E-02	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	0.0329	0.0005		32			0.00E+00	1.66E-02	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	0.1622	0.0026		34			0.00E+00	8.69E-02	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	0.1015	0.0016		32			0.00E+00	5.12E-02	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	0.0616	0.0010		198			0.00E+00	1.92E-01	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	0.2257	0.0036		363	30		0.00E+00	1.29E+00	1.07E-01
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.0374	0.0006		26			0.00E+00	1.53E-02	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.0159	0.0003			37		0.00E+00	0.00E+00	9.27E-03
										ISD	**0.00E+00**	**3.28E-03**	**1.73E-03**
										CAMPUS-All Phases (excluding Remediation)	**1.13E-03**	**3.37E-04**	**0.00E+00**
										CAMPUS-Soil Remediation	**0.00E+00**	**1.99E-04**	**0.00E+00**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	Weighted DPM Emissions per Age Bin (g/s): 3rd Trimester	Weighted DPM Emissions per Age Bin (g/s): 0<2	Weighted DPM Emissions per Age Bin (g/s): 2<5
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.03E-03	6.46E-04	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	0.00E+00	6.40E-03	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	0.00E+00	7.77E-03	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	0.00E+00	7.17E-03	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	0.00E+00	1.49E-03	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	0.00E+00	3.15E-03	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**0.00E+00**	**2.37E-05**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.08E-05**	**1.49E-05**	**0.00E+00**
										CAMPUS-Soil Remediation	**0.00E+00**	**1.22E-05**	**0.00E+00**
										Total Running	**3.08E-05**	**5.09E-05**	**0.00E+00**

Idling Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	Weighted DPM Emissions per Age Bin (g/s): 3rd Trimester	Weighted DPM Emissions per Age Bin (g/s): 0<2	Weighted DPM Emissions per Age Bin (g/s): 2<5
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.14E-04	6.80E-05	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	0.00E+00	5.11E-04	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	0.00E+00	6.20E-04	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	0.00E+00	5.72E-04	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	0.00E+00	1.19E-04	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	0.00E+00	2.52E-04	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**0.00E+00**	**1.89E-06**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.24E-06**	**1.22E-06**	**0.00E+00**
										CAMPUS-Soil Remediation	**0.00E+00**	**9.77E-07**	**0.00E+00**
										Total Idle	**3.24E-06**	**4.09E-06**	**0.00E+00**

AERMOD Concentrations

XY	X	Y	ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
			AERMOD CONCENTRATION (ug/m^3) @ 1g/s				
3928883754211	392888	3754211	2.64653	0.47002	0.10	0.06	0.25

3rd Trimester Age Bin

Parameter		Age Bins		
		3rd Tri	0 < 2	2 < 5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency unitless (days/days)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2	0.26
FAH	Fraction of Time at Home	1.00	1.00	1.00
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**[= CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$	1.1	1.1	1.1
	Diesel Particulate Matter			

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392888.00	3754211.00	0.00E+00	5.32E-04	0.00E+00	1.93E-06	7.99E-07

3rd Trimester Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	3rd Trimester Dose (mg/kg-day)				
392888.00	3754211.00	0.00E+00	1.84E-07	0.00E+00	6.68E-10	2.77E-10

0<2 Age Bin

Parameter		Age Bins		
		3rd Tri	0 < 2	2<5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency unitless (days/days)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2	0.26
FAH	Fraction of Time at Home	1.00	1.00	1.00
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**[= CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$ Diesel Particulate Matter	1.1	1.1	1.1

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392888.00	3754211.00	8.68E-03	1.59E-04	1.94E-05	3.19E-06	1.01E-06

0<2 Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	0-2 Year Dose (mg/kg-day)				
392888.00	3754211.00	9.08E-06	1.66E-07	2.02E-08	3.34E-09	1.06E-09

2<5 Age Bin

Parameter		Age Bins		
		3rd Tri	0 < 2	2 <5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency unitless (days/days)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2	0.26
FAH	Fraction of Time at Home	1.00	1.00	1.00
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**[= CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor (mg/kg-day)$^{-1}$	1.1	1.1	1.1
	Diesel Particulate Matter			

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392888.00	3754211.00	4.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2<5 Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	2<5 Dose (mg/kg-day)				
392888.00	3754211.00	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Cancer Risk Calculations

Parameter		Age Bins		
		3rd Trimester	0 < 2	2 < 5
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	631
A	Inhalation absorption factor (default = 1).	1	1	1
EF	Exposure Frequency (days/year)	0.96	0.96	0.96
ED	Exposure Duration (years)	0.25	2.00	0.26
FAH	Fraction of Time at Home	1	1	1
AT	Averaged Exposure Time Period (years)	70	70	70
ASF	Age Sensitvity Factor	10	10	3
CF	Conversion Factor	1.00E-06	1.00E-06	1.00E-06
DOSE	**Dose= [CONC × DBR × A × EF × CF] (mg/kg-day)**			
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$ (DPM)	1.1	1.1	1.1
Cancer Conversion Factor	1,000,000			
RISK	**Cancer Risk (in one million) =[[DOSE × CPF × ASF x FAH x ED]/ AT]*1,000,000**			

Receptor		3rd Trimester	0 < 2	2<5	Concatenated Receptor	Receptor		3rd Trimester	0 < 2	2<5	Total Cancer Risk (in one million)
X	Y	Dose (mg/kg-day)			(XY)	X	Y	Cancer Risk (in one million)			
392888.00	3754211.00	1.85E-07	9.27E-06	2.77E-06	3928883754211	392888.00	3754211.00	7.27E-03	2.91E+00	3.36E-02	3.0

Localized DPM Emissions

Start	10/1/2019	10/1/2020	10/1/2021
End	9/30/2020	9/30/2021	4/5/2022
Total Workdays	262	261	133

Off-Road Heavy Duty Construction Equipment Emission Rates

					DPM		Days per Age Group				Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	Exhaust PM10 (lb/day)	Emission Rate per work day (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3		CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	0.0718	0.0011	87				9.84E-02	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	0.1622	0.0026	32				8.17E-02	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	0.1015	0.0016	65				1.04E-01	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	0.0718	0.0011	71				8.03E-02	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	0.1015	0.0016	34				5.44E-02	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	0.0329	0.0005	32				1.66E-02	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	0.1622	0.0026	34				8.69E-02	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	0.1015	0.0016	32				5.12E-02	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	0.0616	0.0010	36	162			3.49E-02	1.57E-01	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	0.2257	0.0036	36	261	96		1.28E-01	9.28E-01	3.41E-01
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.0374	0.0006		26			0.00E+00	1.53E-02	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.0159	0.0003			37		0.00E+00	0.00E+00	9.27E-03
										ISD	**1.45E-03**	**4.22E-03**	**2.64E-03**
										CAMPUS-All Phases (excluding Remediation)	**9.58E-04**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**3.97E-04**	**0.00E+00**	**0.00E+00**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.68E-03	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	6.40E-03	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	7.77E-03	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	7.17E-03	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	1.49E-03	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	3.15E-03	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**4.74E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.76E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**2.44E-05**	**0.00E+00**	**0.00E+00**
										Total Running	**1.09E-04**	**0.00E+00**	**0.00E+00**

Idling Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.82E-04	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	5.11E-04	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	6.20E-04	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	5.72E-04	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	1.19E-04	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	2.52E-04	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**3.78E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.26E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**1.95E-06**	**0.00E+00**	**0.00E+00**
										Total Idle	**8.99E-06**	**0.00E+00**	**0.00E+00**

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392428	3753451	RESIDENT	0.0002	0.0003	0.0002	0.0043	0.0112	0.0070	**0.011**
392888	3754211	RESIDENT	0.0043	0.0112	0.0070				

Construction Health Risk Assessment
Maximum Non-cancer Chronic Hazards / Toxicological Endpoints -With Mitigation *

		Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI	ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	Threshold	Over?
Project:																						
Max Residential Receptor		DPM	5.00E+00	1.12E-02	1.00E+00	1.12E-02	**2.23E-03**	--	-	-	-	-	-	-	-	-	-	-	0.0022	-	1.0	NO

Sources:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values" and "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," https://www.arb.ca.gov/toxics/healthval/contable.pdf
Tables last updated: August 20, 2018.

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Region	SOUTH COAST AQMD
Model Year	Aggregated
Speed	Aggregated
Fuel	DSL
Vehicle Category	HHDT

Row Labels	Sum of PM10_RUNEX
2019	0.07808555
2020	0.06248521
2021	0.052203787
2022	0.029646183
Grand Total	**0.22242073**

HHDT Running Exhaust Emissions

Year	g/mi
2019	0.078
2020	0.062
2021	0.052
2022	0.030

Source: EMFAC2017 (Web database)

Localized DPM Emissions

Start	10/1/2019	1/1/2020	10/1/2019	
End	12/31/2019	12/31/2021	4/5/2022	
Total Workdays	66	523	656	2.51

Off-Road Heavy Duty Construction Equipment Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	DPM Exhaust PM10 (lb/day)	DPM Emission Rate per work day (g/s)	Days per Age Group 3rd Trimester	0<2	2<16	16+	Weighted DPM Emissions per Age Bin (g/s) 2<16
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	0.0718	0.0011			87		9.84E-02
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	0.1622	0.0026			32		8.17E-02
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	0.1015	0.0016			65		1.04E-01
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	0.0718	0.0011			71		8.03E-02
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	0.1015	0.0016			34		5.44E-02
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	0.0329	0.0005			32		1.66E-02
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	0.1622	0.0026			34		8.69E-02
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	0.1015	0.0016			32		5.12E-02
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	0.0616	0.0010			198		1.92E-01
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	0.2257	0.0036			393		1.40E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.0374	0.0006			26		1.53E-02
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.0159	0.0003			37		9.27E-03
										ISD	**2.79E-03**
										CAMPUS-All Phases (excluding Remediation)	**3.83E-04**
										CAMPUS-Soil Remediation	**1.58E-04**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	Weighted DPM Emissions per Age Bin (g/s) 2<16
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.68E-03
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	6.40E-03
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	7.77E-03
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	7.17E-03
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	1.49E-03
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	3.15E-03
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00
										ISD	**1.89E-05**
										CAMPUS-All Phases (excluding Remediation)	**1.50E-05**
										CAMPUS-Soil Remediation	**9.76E-06**
										Total Running	**4.37E-05**

Idling Haul, Concrete, Vendor Truck Emission Rates

Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	Weighted DPM Emissions 2<16
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.82E-04
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	5.11E-04
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	6.20E-04
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	5.72E-04
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	1.19E-04
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	2.52E-04
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00
										ISD	**1.51E-06**
										CAMPUS-All Phases (excluding Remediation)	**1.30E-06**
										CAMPUS-Soil Remediation	**7.79E-07**
										Total Idle	**3.59E-06**

AERMOD Concentrations

XY	X	Y	ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
			AERMOD CONCENTRATION (ug/m^3) @ 1g/s				
3926483753951	392648	3753951	0.3062	2.67398	0.07	0.09	0.73
3928883754371	392888	3754371	2.65424	0.37126	0.19329	0.07916	0.24301

2<16 Age Bin

Parameter		Age Bins
		2 <16
DBR	Daily Breathing Rate (L/kg (body weight) per day)	631
A	Inhalation absorption factor (default = 1).	1
EF	Exposure Frequency unitless (days/days)	0.49
ED	Exposure Duration (years)	2.51
WAF	Worker Adjustment Factor	4.20
AT	Averaged Exposure Time Period (years)	70
ASF	Age Sensitvity Factor	3
CF	Conversion Factor	1.00E-06
DOSE	**= [CONC × WAF x DBR × A × EF × CF] (mg/kg-day)**	
CPF	Cancer Potency Factor (mg/kg-day)$^{-1}$	1.1
	Diesel Particulate Matter	

CONCENTRATIONS

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	Project Concentrations (ug/m^3)				
392648.00	3753951.00	8.55E-04	1.02E-03	1.09E-05	3.75E-06	2.63E-06
392888.00	3754371.00	7.41E-03	1.42E-04	3.06E-05	3.46E-06	8.73E-07

2<16 Dose

Receptor		ISD OFF	CMP OFF	CMP SOIL	HAUL	IDLE
X	Y	2<16 Dose (mg/kg-day)				
392648.00	3753951.00	1.12E-06	1.34E-06	1.43E-08	4.91E-09	3.43E-09
392888.00	3754371.00	9.69E-06	1.86E-07	4.00E-08	4.52E-09	1.14E-09

Cancer Risk Calculations

Parameter		Age Bins
		2 < 16
DBR	Daily Breathing Rate (L/kg (body weight) per day)	631
A	Inhalation absorption factor (default = 1).	1
EF	Exposure Frequency (days/year)	0.49
ED	Exposure Duration (years)	2.51
WAF	Worker Adjustment Factor	4.2
AT	Averaged Exposure Time Period (years)	70
ASF	Age Sensitvity Factor	3
CF	Conversion Factor	1.00E-06
DOSE	**Dose= [CONC × DBR × A × EF × CF] (mg/kg-day)**	
CPF	Cancer Potency Factor $(mg/kg\text{-}day)^{-1\ (DPM)}$	1.1
Cancer Conversion Factor	1,000,000	
RISK	**Cancer Risk (in one million) =[[DOSE × CPF × ASF x ED]/ AT]*1,000,000**	

Max School Receptor Cancer Risk (per million)	Max Daycare Receptor Cancer Risk (per million)
0.29	**1.17**

Receptor		2<16	Concatenated Receptor	Receptor		2<16	Total Cancer Risk (in one million)
X	Y	Dose (mg/kg-	(XY)	X	Y	Cancer Risk	
392648.00	3753951.00	2.48E-06	3926483753951	392648.00	3753951.00	2.93E-01	0.29
392888	3754371	9.92E-06	3928883754371	392888.00	3754371.00	1.17E+00	1.17

Localized DPM Emissions

Start	10/1/2019	10/1/2020	10/1/2021
End	9/30/2020	9/30/2021	4/5/2022
Total Workdays	262	261	133

Off-Road Heavy Duty Construction Equipment Emission Rates

					DPM		Days per Age Group				Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	Exhaust PM10 (lb/day)	Emission Rate per work day (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3		CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	0.0718	0.0011	87				9.84E-02	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	0.1622	0.0026	32				8.17E-02	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	0.1015	0.0016	65				1.04E-01	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	0.0718	0.0011	71				8.03E-02	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	0.1015	0.0016	34				5.44E-02	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	0.0329	0.0005	32				1.66E-02	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	0.1622	0.0026	34				8.69E-02	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	0.1015	0.0016	32				5.12E-02	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	0.0616	0.0010	36	162			3.49E-02	1.57E-01	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	0.2257	0.0036	36	261	96		1.28E-01	9.28E-01	3.41E-01
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	0.0374	0.0006		26			0.00E+00	1.53E-02	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	0.0159	0.0003			37		0.00E+00	0.00E+00	9.27E-03
										ISD	**1.45E-03**	**4.22E-03**	**2.64E-03**
										CAMPUS-All Phases (excluding Remediation)	**9.58E-04**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**3.97E-04**	**0.00E+00**	**0.00E+00**

Travel On-Road Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips per day	Daily One-Way Trips	One-way Trip distance (mi.)	DPM Running Emissions Factor (g/mi)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	0.63	7.81E-02	3.08E-05	2.68E-03	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	0.63	6.25E-02	9.85E-05	6.40E-03	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	0.63	6.25E-02	1.09E-04	7.77E-03	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	0.63	6.25E-02	2.11E-04	7.17E-03	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	0.63	6.25E-02	4.38E-05	1.49E-03	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	0.63	6.25E-02	9.85E-05	3.15E-03	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	0.63	6.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	0.63	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	0.63	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**4.74E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.76E-05**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**2.44E-05**	**0.00E+00**	**0.00E+00**
										Total Running	**1.09E-04**	**0.00E+00**	**0.00E+00**

Idling Haul, Concrete, Vendor Truck Emission Rates

											Weighted DPM Emissions per Age Bin (g/s)		
Phase	Start Date	End Date	Number of Work Days	Hours per day	First Year of Construction Activity	Total Truck Trips Haul Trips per Day	Daily One-Way Trips	Idling Time (minutes)	DPM Idling Emissions Factor (g/min)	Emission Rate (g/s)	CSTN Year 1	CSTN Year 2	CSTN Year 3
Phase H-Campus Demolition	10/1/2019	1/29/2020	87	8	2019	9	18	15	6.91E-04	3.24E-06	2.82E-04	0.00E+00	0.00E+00
Phase I-Campus Site Preparation	1/30/2020	3/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase L-Campus Soils Remediation	1/30/2020	4/29/2020	65	8	2020	36	72	15	4.19E-04	7.86E-06	5.11E-04	0.00E+00	0.00E+00
Phase A-ISD Demolition	2/1/2020	5/11/2020	71	8	2020	40	80	15	4.19E-04	8.74E-06	6.20E-04	0.00E+00	0.00E+00
Phase J-Campus Grading	3/16/2020	4/30/2020	34	8	2020	77	154	15	4.19E-04	1.68E-05	5.72E-04	0.00E+00	0.00E+00
Phase K-Campus Landscaping	5/1/2020	6/15/2020	32	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase B-ISD Site Preparation	5/12/2020	6/26/2020	34	8	2020	16	32	15	4.19E-04	3.49E-06	1.19E-04	0.00E+00	0.00E+00
Phase C-ISD Grading/Excavation	6/27/2020	8/11/2020	32	8	2020	36	72	15	4.19E-04	7.86E-06	2.52E-04	0.00E+00	0.00E+00
Phase F-ISD Utils/Street Improvements	8/12/2020	5/14/2021	198	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase D-ISD Building Construction	8/12/2020	2/13/2022	393	8	2020	0	0	15	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase G-ISD Paving	6/1/2021	7/6/2021	26	8	2021	0	0	15	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phase E-ISD Architectural Coatings	2/14/2022	4/5/2022	37	8	2022	0	0	15	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
										ISD	**3.78E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-All Phases (excluding Remediation)	**3.26E-06**	**0.00E+00**	**0.00E+00**
										CAMPUS-Soil Remediation	**1.95E-06**	**0.00E+00**	**0.00E+00**
										Total Idle	**8.99E-06**	**0.00E+00**	**0.00E+00**

			CSTN Year 1	CSTN Year 2	CSTN Year 3
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s		
392968	3753651	SCHOOL	0.0001	0.0001	0.0001
392928	3753671	SCHOOL	0.0001	0.0001	0.0001
392948	3753671	SCHOOL	0.0001	0.0001	0.0001
392968	3753671	SCHOOL	0.0001	0.0001	0.0001
392908	3753691	SCHOOL	0.0001	0.0001	0.0001
392928	3753691	SCHOOL	0.0001	0.0001	0.0001
392948	3753691	SCHOOL	0.0001	0.0001	0.0001
392968	3753691	SCHOOL	0.0001	0.0001	0.0001
392988	3753691	SCHOOL	0.0001	0.0001	0.0001
392868	3753711	SCHOOL	0.0001	0.0002	0.0001
392888	3753711	SCHOOL	0.0001	0.0001	0.0001
392908	3753711	SCHOOL	0.0001	0.0001	0.0001
392928	3753711	SCHOOL	0.0001	0.0001	0.0001
392948	3753711	SCHOOL	0.0001	0.0001	0.0001
392968	3753711	SCHOOL	0.0001	0.0001	0.0001
392988	3753711	SCHOOL	0.0001	0.0001	0.0001
393008	3753711	SCHOOL	0.0001	0.0001	0.0001
392828	3753731	SCHOOL	0.0001	0.0002	0.0001
392848	3753731	SCHOOL	0.0001	0.0002	0.0001
392868	3753731	SCHOOL	0.0001	0.0002	0.0001
392888	3753731	SCHOOL	0.0001	0.0002	0.0001
392908	3753731	SCHOOL	0.0001	0.0001	0.0001
392928	3753731	SCHOOL	0.0001	0.0001	0.0001
392948	3753731	SCHOOL	0.0001	0.0001	0.0001
392968	3753731	SCHOOL	0.0001	0.0001	0.0001
392988	3753731	SCHOOL	0.0001	0.0001	0.0001
393008	3753731	SCHOOL	0.0001	0.0001	0.0001
392808	3753751	SCHOOL	0.0002	0.0002	0.0001
392828	3753751	SCHOOL	0.0001	0.0002	0.0001
392848	3753751	SCHOOL	0.0001	0.0002	0.0001
392868	3753751	SCHOOL	0.0001	0.0002	0.0001
392888	3753751	SCHOOL	0.0001	0.0002	0.0001
392908	3753751	SCHOOL	0.0001	0.0002	0.0001
392928	3753751	SCHOOL	0.0001	0.0001	0.0001
392948	3753751	SCHOOL	0.0001	0.0001	0.0001
392968	3753751	SCHOOL	0.0001	0.0001	0.0001
392988	3753751	SCHOOL	0.0001	0.0001	0.0001
393008	3753751	SCHOOL	0.0001	0.0001	0.0001
393028	3753751	SCHOOL	0.0001	0.0001	0.0001
392768	3753771	SCHOOL	0.0002	0.0003	0.0002
392788	3753771	SCHOOL	0.0002	0.0003	0.0002
392808	3753771	SCHOOL	0.0002	0.0002	0.0002
392828	3753771	SCHOOL	0.0002	0.0002	0.0001
392848	3753771	SCHOOL	0.0001	0.0002	0.0001
392868	3753771	SCHOOL	0.0001	0.0002	0.0001
392888	3753771	SCHOOL	0.0001	0.0002	0.0001
392908	3753771	SCHOOL	0.0001	0.0002	0.0001
392928	3753771	SCHOOL	0.0001	0.0002	0.0001

CSTN Year 1	CSTN Year 2	CSTN Year 3	
Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
School			
0.0031	0.0013	0.0008	**0.003**
Daycare			
0.0043	0.0112	0.0070	**0.011**

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392948	3753771	SCHOOL	0.0001	0.0001	0.0001				
392968	3753771	SCHOOL	0.0001	0.0001	0.0001				
392988	3753771	SCHOOL	0.0001	0.0001	0.0001				
393008	3753771	SCHOOL	0.0001	0.0001	0.0001				
393028	3753771	SCHOOL	0.0001	0.0001	0.0001				
392728	3753791	SCHOOL	0.0003	0.0004	0.0002				
392748	3753791	SCHOOL	0.0002	0.0004	0.0002				
392768	3753791	SCHOOL	0.0002	0.0003	0.0002				
392788	3753791	SCHOOL	0.0002	0.0003	0.0002				
392808	3753791	SCHOOL	0.0002	0.0003	0.0002				
392828	3753791	SCHOOL	0.0002	0.0002	0.0002				
392848	3753791	SCHOOL	0.0002	0.0002	0.0001				
392868	3753791	SCHOOL	0.0001	0.0002	0.0001				
392888	3753791	SCHOOL	0.0001	0.0002	0.0001				
392908	3753791	SCHOOL	0.0001	0.0002	0.0001				
392928	3753791	SCHOOL	0.0001	0.0002	0.0001				
392948	3753791	SCHOOL	0.0001	0.0002	0.0001				
392968	3753791	SCHOOL	0.0001	0.0001	0.0001				
392988	3753791	SCHOOL	0.0001	0.0001	0.0001				
392688	3753811	SCHOOL	0.0004	0.0005	0.0003				
392708	3753811	SCHOOL	0.0003	0.0005	0.0003				
392728	3753811	SCHOOL	0.0003	0.0004	0.0003				
392748	3753811	SCHOOL	0.0003	0.0004	0.0002				
392768	3753811	SCHOOL	0.0003	0.0004	0.0002				
392788	3753811	SCHOOL	0.0002	0.0003	0.0002				
392808	3753811	SCHOOL	0.0002	0.0003	0.0002				
392828	3753811	SCHOOL	0.0002	0.0003	0.0002				
392848	3753811	SCHOOL	0.0002	0.0002	0.0002				
392868	3753811	SCHOOL	0.0002	0.0002	0.0001				
392888	3753811	SCHOOL	0.0002	0.0002	0.0001				
392908	3753811	SCHOOL	0.0001	0.0002	0.0001				
392928	3753811	SCHOOL	0.0001	0.0002	0.0001				
392948	3753811	SCHOOL	0.0001	0.0002	0.0001				
392968	3753811	SCHOOL	0.0001	0.0002	0.0001				
392668	3753831	SCHOOL	0.0005	0.0006	0.0004				
392688	3753831	SCHOOL	0.0004	0.0005	0.0003				
392708	3753831	SCHOOL	0.0004	0.0005	0.0003				
392728	3753831	SCHOOL	0.0004	0.0005	0.0003				
392748	3753831	SCHOOL	0.0003	0.0004	0.0003				
392768	3753831	SCHOOL	0.0003	0.0004	0.0002				
392788	3753831	SCHOOL	0.0003	0.0004	0.0002				
392808	3753831	SCHOOL	0.0002	0.0003	0.0002				
392828	3753831	SCHOOL	0.0002	0.0003	0.0002				
392848	3753831	SCHOOL	0.0002	0.0003	0.0002				
392868	3753831	SCHOOL	0.0002	0.0002	0.0002				
392888	3753831	SCHOOL	0.0002	0.0002	0.0001				
392908	3753831	SCHOOL	0.0002	0.0002	0.0001				
392928	3753831	SCHOOL	0.0001	0.0002	0.0001				

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392628	3753851	SCHOOL	0.0007	0.0007	0.0005				
392648	3753851	SCHOOL	0.0007	0.0007	0.0004				
392668	3753851	SCHOOL	0.0006	0.0007	0.0004				
392688	3753851	SCHOOL	0.0005	0.0006	0.0004				
392708	3753851	SCHOOL	0.0005	0.0006	0.0004				
392728	3753851	SCHOOL	0.0004	0.0005	0.0003				
392748	3753851	SCHOOL	0.0004	0.0005	0.0003				
392768	3753851	SCHOOL	0.0003	0.0004	0.0003				
392788	3753851	SCHOOL	0.0003	0.0004	0.0002				
392808	3753851	SCHOOL	0.0003	0.0004	0.0002				
392828	3753851	SCHOOL	0.0002	0.0003	0.0002				
392848	3753851	SCHOOL	0.0002	0.0003	0.0002				
392868	3753851	SCHOOL	0.0002	0.0003	0.0002				
392888	3753851	SCHOOL	0.0002	0.0002	0.0002				
392608	3753871	SCHOOL	0.0011	0.0009	0.0005				
392628	3753871	SCHOOL	0.0009	0.0008	0.0005				
392648	3753871	SCHOOL	0.0008	0.0008	0.0005				
392668	3753871	SCHOOL	0.0007	0.0007	0.0005				
392688	3753871	SCHOOL	0.0006	0.0007	0.0004				
392708	3753871	SCHOOL	0.0006	0.0006	0.0004				
392728	3753871	SCHOOL	0.0005	0.0006	0.0004				
392748	3753871	SCHOOL	0.0004	0.0005	0.0003				
392768	3753871	SCHOOL	0.0004	0.0005	0.0003				
392788	3753871	SCHOOL	0.0003	0.0004	0.0003				
392808	3753871	SCHOOL	0.0003	0.0004	0.0002				
392828	3753871	SCHOOL	0.0003	0.0004	0.0002				
392848	3753871	SCHOOL	0.0002	0.0003	0.0002				
392868	3753871	SCHOOL	0.0002	0.0003	0.0002				
392608	3753891	SCHOOL	0.0016	0.0010	0.0006				
392628	3753891	SCHOOL	0.0013	0.0009	0.0006				
392648	3753891	SCHOOL	0.0011	0.0009	0.0005				
392668	3753891	SCHOOL	0.0010	0.0008	0.0005				
392688	3753891	SCHOOL	0.0008	0.0008	0.0005				
392708	3753891	SCHOOL	0.0007	0.0007	0.0004				
392728	3753891	SCHOOL	0.0006	0.0007	0.0004				
392748	3753891	SCHOOL	0.0005	0.0006	0.0004				
392768	3753891	SCHOOL	0.0004	0.0005	0.0003				
392788	3753891	SCHOOL	0.0004	0.0005	0.0003				
392808	3753891	SCHOOL	0.0003	0.0004	0.0003				
392828	3753891	SCHOOL	0.0003	0.0004	0.0002				
392628	3753911	SCHOOL	0.0018	0.0010	0.0006				
392648	3753911	SCHOOL	0.0015	0.0010	0.0006				
392668	3753911	SCHOOL	0.0013	0.0009	0.0006				
392688	3753911	SCHOOL	0.0012	0.0009	0.0005				
392708	3753911	SCHOOL	0.0009	0.0008	0.0005				
392728	3753911	SCHOOL	0.0007	0.0007	0.0005				
392748	3753911	SCHOOL	0.0006	0.0007	0.0004				
392768	3753911	SCHOOL	0.0005	0.0006	0.0004				

			CSTN Year 1	CSTN Year 2	CSTN Year 3	CSTN Year 1	CSTN Year 2	CSTN Year 3	
X	Y	GROUP	Project CONCENTRATION (ug/m^3) @ 1g/s			Project CONCENTRATION (ug/m^3) @ 1g/s			Project Max
392788	3753911	SCHOOL	0.0004	0.0006	0.0003				
392808	3753911	SCHOOL	0.0004	0.0005	0.0003				
392628	3753931	SCHOOL	0.0027	0.0012	0.0007				
392648	3753931	SCHOOL	0.0021	0.0011	0.0007				
392668	3753931	SCHOOL	0.0019	0.0011	0.0007				
392728	3753931	SCHOOL	0.0010	0.0009	0.0005				
392748	3753931	SCHOOL	0.0008	0.0008	0.0005				
392768	3753931	SCHOOL	0.0006	0.0007	0.0004				
392648	3753951	SCHOOL	0.0031	0.0013	0.0008				
392728	3753951	SCHOOL	0.0017	0.0010	0.0006				
392748	3753951	SCHOOL	0.0011	0.0009	0.0006				
392908	3754351	DAYCARE	0.0042	0.0109	0.0068				
392928	3754351	DAYCARE	0.0033	0.0084	0.0052				
392888	3754371	DAYCARE	0.0043	0.0112	0.0070				
392908	3754371	DAYCARE	0.0035	0.0091	0.0057				
392928	3754371	DAYCARE	0.0029	0.0073	0.0046				
392868	3754391	DAYCARE	0.0043	0.0111	0.0069				
392888	3754391	DAYCARE	0.0037	0.0094	0.0058				
392908	3754391	DAYCARE	0.0031	0.0078	0.0049				
392928	3754391	DAYCARE	0.0026	0.0065	0.0041				
392948	3754391	DAYCARE	0.0022	0.0054	0.0033				
392868	3754411	DAYCARE	0.0037	0.0093	0.0058				
392888	3754411	DAYCARE	0.0032	0.0080	0.0050				
392908	3754411	DAYCARE	0.0028	0.0069	0.0043				
392928	3754411	DAYCARE	0.0024	0.0058	0.0036				
392948	3754411	DAYCARE	0.0020	0.0049	0.0031				
392888	3754431	DAYCARE	0.0028	0.0070	0.0044				
392908	3754431	DAYCARE	0.0025	0.0061	0.0038				
392928	3754431	DAYCARE	0.0022	0.0053	0.0033				

Construction Health Risk Assessment
Maximum Non-cancer Chronic Hazards / Toxicological Endpoints -Without Mitigation *

	Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI	ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	Threshold	Over?
Project:																					
Max School Receptor	DPM	5.00E+00	3.05E-03	1.00E+00	3.05E-03	**6.10E-04**	--	-	-	-	-	-	-	-	-	-	-	0.001	-	1.0	NO
Max Daycare Receptor	DPM	5.00E+00	1.12E-02	1.00E+00	1.12E-02	**2.24E-03**	--	-	-	-	-	-	-	-	-	-	-	0.0022	-	1.0	NO

Sources:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values" and "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," https://www.arb.ca.gov/toxics/healthval/contable.pdf
Tables last updated: August 20, 2018.

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Region	SOUTH COAST AQMD
Model Year	Aggregated
Speed	Aggregated
Fuel	DSL
Vehicle Category	HHDT

Row Labels	Sum of PM10_RUNEX
2019	0.07808555
2020	0.06248521
2021	0.052203787
2022	0.029646183
Grand Total	**0.22242073**

HHDT Running Exhaust Emissions

Year	g/mi
2019	0.078
2020	0.062
2021	0.052
2022	0.030

Source: EMFAC2017 (Web database)

Operational Emissions

Unmitigated Regional Operational Emissions

Unmitigated Regional Operational Emissions

Summer Category	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Area	15.19	0.00	0.34	0.00	0.00	0.00
Energy	0.20	1.82	1.53	0.01	0.14	0.14
Mobile	11.52	52.54	133.86	0.47	37.65	10.33
Emergency Generators	9.45	179.60	102.40	0.00	5.67	5.54
Total	36.36	233.96	238.13	0.48	43.46	16.01

Winter Category	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Area	15.19	0.00	0.34	0.00	0.00	0.00
Energy	0.20	1.82	1.53	0.01	0.14	0.14
Mobile	11.17	53.43	128.86	0.45	37.65	10.33
Emergency Generators	9.45	179.60	102.40	0.00	5.67	5.54
Total	36.01	234.85	233.13	0.46	43.46	16.01

Daily Maximums Category	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Area	15.19	0.00	0.34	0.00	0.00	0.00
Energy	0.20	1.82	1.53	0.01	0.14	0.14
Mobile	11.52	53.43	133.86	0.47	37.65	10.33
Emergency Generators	9.45	179.60	102.40	0.00	5.67	5.54
Total	36.36	234.85	238.13	0.48	43.46	16.01
SCAQMD Regional Significance Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	Yes	No	No	No	No

Unmitigated Localized Operational Emissions

Summer Category	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Area	0.00	0.34	0.00	0.00
Energy	1.82	1.53	0.14	0.14
Emergency Generators	179.60	102.40	5.67	5.54
Total	181.42	104.27	5.81	5.67

Winter Category	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Area	0.00	0.34	0.00	0.00
Energy	1.82	1.53	0.14	0.14
Emergency Generators	179.60	102.40	5.67	5.54
Total	181.42	104.27	5.81	5.67

Daily Maximums Category	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Area	0.00	0.34	0.00	0.00
Energy	1.82	1.53	0.14	0.14
Emergency Generators	179.60	102.40	5.67	5.54
Total	181.42	104.27	5.81	5.67

Unmitigated Emergency Generator Emissions

Source	VOC	NOX	CO	SOX	PM10	PM2.5
			lb/day			
ISD1	2.63	49.89	28.44	0.00	1.58	1.54
ISD2	2.63	49.89	28.44	0.00	1.58	1.54
ISD3	2.63	49.89	28.44	0.00	1.58	1.54
County Office	1.58	29.94	17.07	0.00	0.95	0.92
Total Emissions	9.45	179.60	102.40	0.00	5.67	5.54

Source	VOC	NOX	CO	SOX	PM10	PM2.5
			lb/year			
ISD1	65.64	1247.19	711.12	0.02	39.39	38.44
ISD2	65.64	1247.19	711.12	0.02	39.39	38.44
ISD3	65.64	1247.19	711.12	0.02	39.39	38.44
County Office	39.39	748.39	426.71	0.01	23.63	23.07

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	2,500
	HP	3,353
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

ISD 1 Emergency Generator Emissions

Units	VOC[6]	NOX[6]	CO	SOX[7]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.24	4.56	2.6	5.50E-05	0.1440	0.1406
lbs/hr	1.31	24.94	14.22	0.0003	0.79	0.77
lbs/day	**2.63**	**49.89**	**28.44**	**0.0006**	**1.58**	**1.54**
lbs/yr	65.64	1247.19	711.12	0.02	39.39	38.44
tons/yr	3.28E-02	6.24E-01	3.56E-01	7.53E-06	1.97E-02	1.92E-02
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

6 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	2,500
	HP	3,353
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

ISD 2 Emergency Generator Emissions

Units	VOC[6]	NOX[6]	CO	SOX[7]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.24	4.56	2.6	5.50E-05	0.1440	0.1406
lbs/hr	1.31	24.94	14.22	0.0003	0.79	0.77
lbs/day	**2.63**	**49.89**	**28.44**	**0.0006**	**1.58**	**1.54**
lbs/yr	65.64	1247.19	711.12	0.02	39.39	38.44
tons/yr	3.28E-02	6.24E-01	3.56E-01	7.53E-06	1.97E-02	1.92E-02
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

6 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	2,500
	HP	3,353
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

ISD 3 Emergency Generator Emissions

Units	VOC[6]	NOX[6]	CO	SOX[7]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.24	4.56	2.6	5.50E-05	0.1440	0.1406
lbs/hr	1.31	24.94	14.22	0.0003	0.79	0.77
lbs/day	**2.63**	**49.89**	**28.44**	**0.0006**	**1.58**	**1.54**
lbs/yr	65.64	1247.19	711.12	0.02	39.39	38.44
tons/yr	3.28E-02	6.24E-01	3.56E-01	7.53E-06	1.97E-02	1.92E-02
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

6 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	1,500
	HP	2,012
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

County Office Emergency Generator Emissions

Units	VOC[6]	NOX[6]	CO	SOX[7]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.24	4.56	2.6	5.50E-05	0.1440	0.1406
lbs/hr	0.79	14.97	8.53	0.0002	0.47	0.46
lbs/day	**1.58**	**29.94**	**17.07**	**0.0004**	**0.95**	**0.92**
lbs/yr	39.39	748.39	426.71	0.01	23.63	23.07
tons/yr	1.97E-02	3.74E-01	2.13E-01	4.52E-06	1.18E-02	1.15E-02
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

6 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Mitigated Regional Operational Emissions

Mitigated Regional Operational Emissions

Summer Category	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Area	15.19	0.00	0.34	0.00	0.00	0.00
Energy	0.20	1.82	1.53	0.01	0.14	0.14
Mobile	11.52	52.54	133.86	0.47	37.65	10.33
Emergency Generators	0.22	4.16	11.16	0.00	0.00	0.00
Total	27.13	58.52	146.89	0.48	37.79	10.47

Winter Category	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Area	15.19	0.00	0.34	0.00	0.00	0.00
Energy	0.20	1.82	1.53	0.01	0.14	0.14
Mobile	11.17	53.43	128.86	0.45	37.65	10.33
Emergency Generators	0.22	4.16	11.16	0.00	0.00	0.00
Total	26.78	59.41	141.89	0.46	37.79	10.48

Daily Maximums Category	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Area	15.19	0.00	0.34	0.00	0.00	0.00
Energy	0.20	1.82	1.53	0.01	0.14	0.14
Mobile	11.52	53.43	133.86	0.47	37.65	10.33
Emergency Generators	0.22	4.16	11.16	0.00	0.00	0.00
Total	27.13	59.41	146.89	0.48	37.79	10.48
SCAQMD Regional Significance Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	Yes	No	No	No	No

Mitigated Regional Operational Emissions

Summer Category	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Area	0.00	0.34	0.00	0.00
Energy	1.82	1.53	0.14	0.14
Emergency Generators	4.16	11.16	0.00	0.00
Total	5.98	13.03	0.14	0.14

Winter Category	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Area	0.00	0.34	0.00	0.00
Energy	1.82	1.53	0.14	0.14
Emergency Generators	4.16	11.16	0.00	0.00
Total	5.98	13.03	0.14	0.14

Daily Maximums Category	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Area	0.00	0.34	0.00	0.00
Energy	1.82	1.53	0.14	0.14
Emergency Generators	4.16	11.16	0.00	0.00
Total	5.98	13.03	0.14	0.14
SCAQMD Regional Significance Thresholds	55	550	150	55
Exceeds Threshold?	No	No	No	No

Mitigated Emergency Generator Emissions

Source	VOC	NOX	CO	SOX	PM10	PM2.5
			lb/day			
ISD1	0.22	4.16	11.16	0.001	0.003	0.003
ISD2	0.22	4.16	11.16	0.001	0.003	0.003
ISD3	0.22	4.16	11.16	0.001	0.003	0.003
County Office	0.13	2.49	6.70	0.000	0.002	0.002
Total Emissions	0.79	14.97	40.17	0.002	0.012	0.012

Source	VOC	NOX	CO	SOX	PM10	PM2.5
			lb/year			
ISD1	5.47	103.93	278.98	0.02	0.08	0.08
ISD2	5.47	103.93	278.98	0.02	0.08	0.08
ISD3	5.47	103.93	278.98	0.02	0.08	0.08
County Office	3.28	62.37	167.40	0.01	0.05	0.05

Conversion Factors

Parameter	Value
HP/kW	1.341
PM10 Fraction of Total PM[1]	0.960
PM2.5 Fraction of Total PM[1]	0.937
NMHC frac - diesel[2]	0.05
NOX frac - diesel[2]	0.95
Ratings:	
kW	2,500
HP	3,353
Load Factor[3]:	0.74
Operating Hours per Unit[4]:	
hours/day	2
hours/year	50

ISD 1 Emergency Generator Emissions

Units	VOC	NOX	CO	SOX[6]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.02	0.38	1.02	5.50E-05	0.0003	0.0003
lbs/hr	0.11	2.08	5.58	0.0003	0.00	0.00
lbs/day	**0.22**	**4.16**	**11.16**	**0.0006**	**0.00**	**0.00**
lbs/yr	5.47	103.93	278.98	0.02	0.08	0.08
tons/yr	2.74E-03	5.20E-02	1.39E-01	7.53E-06	4.10E-05	4.10E-05
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 Emission Factors based on Certified ICE-EMERGENCY GENERATORS

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	2,500
	HP	3,353
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

ISD 2 Emergency Generator Emissions

Units	VOC[7]	NOX[6]	CO	SOX[6]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.02	0.38	1.02	5.50E-05	0.0003	0.0003
lbs/hr	0.11	2.08	5.58	0.0003	0.00	0.00
lbs/day	**0.22**	**4.16**	**11.16**	**0.0006**	**0.00**	**0.00**
lbs/yr	5.47	103.93	278.98	0.02	0.08	0.08
tons/yr	2.74E-03	5.20E-02	1.39E-01	7.53E-06	4.10E-05	4.10E-05
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 Emission Factors based on Certified ICE-EMERGENCY GENERATORS

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	2,500
	HP	3,353
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

ISD 3 Emergency Generator Emissions

Units	VOC[7]	NOX[6]	CO	SOX[6]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.02	0.38	1.02	5.50E-05	0.0003	0.0003
lbs/hr	0.11	2.08	5.58	0.0003	0.00	0.00
lbs/day	**0.22**	**4.16**	**11.16**	**0.0006**	**0.00**	**0.00**
lbs/yr	5.47	103.93	278.98	0.02	0.08	0.08
tons/yr	2.74E-03	5.20E-02	1.39E-01	7.53E-06	4.10E-05	4.10E-05
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 Emission Factors based on Certified ICE-EMERGENCY GENERATORS

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

Conversion Factors

Parameter		Value
HP/kW		1.341
PM10 Fraction of Total PM[1]		0.960
PM2.5 Fraction of Total PM[1]		0.937
NMHC frac - diesel[2]		0.05
NOX frac - diesel[2]		0.95
Ratings:		
	kW	1,500
	HP	2,012
Load Factor[3]:		0.74
Operating Hours per Unit[4]:		
	hours/day	2
	hours/year	50

County Office Emergency Generator Emissions

Units	VOC[7]	NOX[6]	CO	SOX[6]	PM10	PM2.5
g/kW-hr					—	—
g/HP-hr[5]	0.02	0.38	1.02	5.50E-05	0.0003	0.0003
lbs/hr	0.07	1.25	3.35	0.0002	0.00	0.00
lbs/day	**0.13**	**2.49**	**6.70**	**0.0004**	**0.00**	**0.00**
lbs/yr	3.28	62.37	167.40	0.01	0.05	0.05
tons/yr	1.64E-03	3.12E-02	8.37E-02	4.52E-06	2.46E-05	2.46E-05
metric tons/yr					—	—

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

3 Load Factor based on CalEEMod Generator Set Load Factor

4 Number of hours permitted for testing and maintenance consistent with SCAQMD Rule 1470

5 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

7 Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1.
Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.

Source: ESA 2019.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Certified ICE-EMERGENCY GENERATORS (Updated October 9, 2018)

DIESEL FUEL EXCEPT AS SPECIFIED

Manufacturer/Distributor	Engine Mfg.	Model	Engine Rating	Appl. No.	Exp. Date	Comments	HC**	NOx	HC + NOx	CO	PM	
Cummins Cal Pacific, Inc.	Cummins	4BT3.3-G5	69 BHP	551025	12/31/2018	TIER 3	0.25	2.98	3.23	1.09	0.12	
1939 Deere Avenue	Cummins	GM8.1L-HO (NatGas/LPG)	225 BHP (210 w/Propane)	505314	12/31/2018		0.38	0.05	0.43	0.29	N/A	
Irvine, California 92606	Cummins	GTA855e (NatGas)	383 BHP	523875	12/31/2018		1.50	1.50	3.00	2.00	0	
	Cummins	QSB5-G3	145 BHP	465328	12/31/2018	TIER 3	0.07	2.76	2.83	0.67	0.097	
Paul O'Hara	Cummins	QSB7-G3	250 BHP	471081	12/31/2018	TIER 3	0.09	2.67	2.76	1.19	0.13	
(949) 253-6021	Cummins	QSB7-G5 NR3	324 BHP	536951	12/31/2018	TIER 3	0.11	2.88	2.99	0.75	0.082	
Fax (949) 253-6070	Cummins	QSB7-G5 with J.Matthey Diesel Particulate Filter	324 BHP	546461	12/31/2018	TIER 3	0.03	2.88	2.91	0.15	0.01	
paul.n.ohara@cummins.com	Cummins	QSB7-G5(GSGAA,GSGAB,&GSGAC) W/ JM-SDPF-1H	324 BHP	575968	12/31/2018	TIER 3	0.01	2.89	2.90	0.52	0.01	
	Cummins	QSB7-G5(GSGAD & GSGAE) W/ JM-SDPF-2-H	324 BHP	575967	12/31/2018	TIER 3	0.01	2.89	2.90	0.52	0.01	
	Cummins	QSB7-G6 with Integ'd. DPF and Oxidation Catalyst	314 BHP	529762	12/31/2018	TIER 4 INTERIM	0.01	1.04	1.05	0.01	0.002	
Tom Golnick	Cummins	QSK19-G8	967 BHP	555960	12/31/2018	TIER 2	0.14	4.44	4.58	0.90	0.06	
(619) 219-5044	Cummins	QSK23-G7 NR2	1220 BHP	471026	12/31/2018	TIER 2	0.10	4.30	4.40	0.60	0.1	
Fax (949) 253-6070	Cummins	QSK50-G4	2220 BHP	465917	12/31/2018	TIER 2	0.14	4.41	4.55	0.87	0.06	
tom.s.golnick@cummins.com	Cummins	QSK50-G4	2650 BHP	455117	12/31/2018	TIER 2	0.14	4.41	4.55	0.87	0.06	
	Cummins	QSK50-G5	2220 BHP	544897	12/31/2018	TIER 2	0.14	4.03	4.17	0.90	0.05	
	Cummins	QSK50-G5 W/ D4F-H Tier 4f Aftertreatment	2220 BHP	546507	12/31/2018	TIER 4 FINAL	0.02	0.38	0.40	1.02	3E-04	This type of Generator for 1,500 kW
	Cummins	QSK60-G14	3280 BHP	477447	12/31/2018	TIER 2	0.10	3.93	4.03	0.37	0.07	
	Cummins	QSK60-G6	2922 BHP	471027	12/31/2018	TIER 2	0.10	3.93	4.03	0.37	0.07	
	Cummins	QSK60-G6	3352 BHP	455115	12/31/2018	TIER 2	0.10	3.93	4.03	0.37	0.07	
	Cummins	QSK60-G6 with D4F-H Tier 4f Aftertreatment	2922 BHP	544894	12/31/2018	TIER 4 FINAL	0.00	0.43	0.43	0.44	0	
	Cummins	QSK60-G619	3640 BHP	572241	12/31/2018	TIER 2	0.10	3.70	3.80	0.75	0.09	
	Cummins	QSK78-G10	3680 BHP	514652	12/31/2018	TIER 2	0.55	4.15	4.70	0.31	0.09	
	Cummins	QSK78-G11	3705 BHP	544891	12/31/2018	TIER 2	0.20	3.61	3.81	0.75	0.09	
	Cummins	QSK78-G11 W/ D5F-H Tier 4f Aftertreatment	3705 BHP	544895	12/31/2018	TIER 4 FINAL	0.02	0.38	0.40	1.02	3E-04	This type of Generator for 2,500 kW
	Cummins	QSK95-G9	5160 BHP	577478	12/31/2018	TIER 2	0.22	4.38	4.60	0.05	0.11	
	Cummins	QSL9-G2	364 BHP	455119	12/31/2018	TIER 3	0.16	2.67	2.83	2.39	0.12	
	Cummins	QSL9-G3	399 BHP	461873	12/31/2018	TIER 3	0.17	2.74	2.91	2.31	0.12	
	Cummins	QSL9-G7	464 BHP	542405	12/31/2018	TIER 3	0.20	2.63	2.83	2.46	0.112	
	Cummins	QSL9-G7 with JM SDPF-3-H-BITO-CS-10-LP	464 BHP	579034	12/31/2018	TIER 2	0.16	2.67	2.83	1.70	0.01	
	Cummins	QSM11-G4	470 BHP	471439	12/31/2018	TIER 3	0.11	2.35	2.46	0.45	0.06	
	Cummins	QST30-G5	1490 BHP	455112	12/31/2018	TIER 2	0.22	4.40	4.62	0.52	0.08	
	Cummins	QST30-G5 W/ JM MQB40 Diesel Oxidation Catalyst	1490 BHP	572682	12/31/2018	TIER 2	0.16	3.87	4.03	0.16	0.064	
	Cummins	QST30-G5 W/ S4F-H Tier 4f Aftertreatment	1490 BHP	545101	12/31/2018	TIER 4 FINAL	0.02	0.29	0.31	0.73	0.002	
	Cummins	QST30-G5 with JM MB20 Diesel Oxidation Catalyst	1490 BHP	558448	12/31/2018	TIER 2	0.10	3.72	3.82	0.16	0.064	
	Cummins	QSX15-G9	755 BHP	455700	12/31/2018	TIER 2	0.11	4.59	4.70	0.45	0.075	
	Cummins	QSX15-G9 with JM-SDPF-4/3	755 BHP	577235	12/31/2018	TIER 2	0.10	4.53	4.63	0.52	0.01	
	Cummins	WSG-1068 (NatGas/LPG)	112.2 BHP Gas/119.8 BHP LPG	526614	12/31/2018		1.50	1.50	3.00	2.00	0	
	Cummins	WSG-1068 (NatGas/LPG)	176 BHP GAS/164 BHP LPG	530064	12/31/2018	EPA (2010)	0.10	0.20	0.30	0.01	0	
	Cummins	KTA19G (Nat Gas)	530 BHP	580046	12/31/2018		0.22	1.50	1.72	1.51	0	
	Power Solutions Int'l	PSI 8.8CAC (Nat Gas)	243 BHP	580047	12/31/2018		0.00	0.03	0.03	0.22	0	
	Cummins	QSL9-G9 Tier 4F (w/ DOC & SCR)	433 BHP	582925	12/31/2018	Tier 4 FINAL	0.02	0.15	0.17	0.01	0.015	
	Cummins	QSB7-G9 Tier 4F (w/ DOC & SCR)	314 BHP	582926	12/31/2018	Tier 4 FINAL	0.02	0.10	0.12	0.01	0.008	
	Cummins	QSK23-G7 with S250 DPF	1220 BHP	584752	12/31/2018		0.33	4.07	4.40	0.37	0.01	
	Cummins	WSG-1068 (NatGas/LPG)	194 BHP	586573	12/31/2018		0.13	0.33	0.46	1.64	0	
	Cummins	QST30-G5 with S250 DPF	1490 BHP	586701	12/31/2018		0.18	4.23	4.41	0.52	0.01	
	Cummins	QSK60-G6 with D250 DPF	2922 BHP	586702	12/31/2018		0.20	3.96	4.16	0.75	0.01	
	Cummins	QSK50-G5 with D250 DPF	2220 BHP	586703	12/31/2018		0.14	4.44	4.58	0.90	0.01	
	Cummins	QSJ5.9G-G3 (Nat Gas) (70 KWe)	113.6 BHP	601978	12/31/2018		0.22	0.93	1.15	0.95	0	
	Cummins	QSJ5.9G-G3 (Nat Gas) (80 KWe)	127.6 BHP	602038	12/31/2018		0.22	1.16	1.38	0.95	0	
	Cummins	QSB5-G6	208 BHP	603982	12/31/2018	TIER 3	0.11	2.68	2.79	0.66	0.1	
	Cummins	QSB5-G13	173 BHP	603641	12/31/2018	TIER 3	0.11	2.68	2.79	0.66	0.1	

Rancho Los Amigos-Operations - Los Angeles-South Coast County, Summer

Rancho Los Amigos-Operations

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	549	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE CO2 intensity factor based on SCE's 2017 Sustainability Report for year 2017

Land Use - Project Specific Information

Vehicle Trips - Trip Rate Consistent with Traffic Study

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Total	**26.9081**	**54.3600**	**135.7286**	**0.4800**	**37.2667**	**0.5221**	**37.7887**	**9.9732**	**0.4962**	**10.4694**		**49,951.1221**	**49,951.1221**	**2.5243**	**0.0400**	**50,026.1451**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Total	**26.9081**	**54.3600**	**135.7286**	**0.4800**	**37.2667**	**0.5221**	**37.7887**	**9.9732**	**0.4962**	**10.4694**		**49,951.1221**	**49,951.1221**	**2.5243**	**0.0400**	**50,026.1451**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198
Unmitigated	11.5182	52.5394	133.8592	0.4691	37.2667	0.3827	37.6494	9.9732	0.3569	10.3301		47,769.4056	47,769.4056	2.4806		47,831.4198

4.2 Trip Summary Information

	Average Daily Trip Rate		
	Unmitigated	Mitigated	

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
NaturalGas Unmitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4762.93	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4791.45	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8983.97	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4.76293	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4.79145	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8.98397	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Unmitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Rancho Los Amigos-Operations - Los Angeles-South Coast County, Winter

Rancho Los Amigos-Operations

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	549	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE CO2 intensity factor based on SCE's 2017 Sustainability Report for year 2017

Land Use - Project Specific Information

Vehicle Trips - Trip Rate Consistent with Traffic Study

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Total	**26.5606**	**55.2537**	**130.7311**	**0.4568**	**37.2667**	**0.5247**	**37.7913**	**9.9732**	**0.4987**	**10.4719**		**47,601.4600**	**47,601.4600**	**2.5358**	**0.0400**	**47,676.7702**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Energy	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
Mobile	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Total	**26.5606**	**55.2537**	**130.7311**	**0.4568**	**37.2667**	**0.5247**	**37.7913**	**9.9732**	**0.4987**	**10.4719**		**47,601.4600**	**47,601.4600**	**2.5358**	**0.0400**	**47,676.7702**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448
Unmitigated	11.1708	53.4331	128.8618	0.4459	37.2667	0.3853	37.6520	9.9732	0.3594	10.3326		45,419.7435	45,419.7435	2.4921		45,482.0448

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436
NaturalGas Unmitigated	0.1999	1.8175	1.5267	0.0109		0.1381	0.1381		0.1381	0.1381		2,180.9831	2,180.9831	0.0418	0.0400	2,193.9436

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4762.93	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4791.45	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8983.97	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government Office Building	4.76293	0.0514	0.4670	0.3922	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.3449	560.3449	0.0107	0.0103	563.6747
Government Office Building	4.79145	0.0517	0.4698	0.3946	2.8200e-003		0.0357	0.0357		0.0357	0.0357		563.7002	563.7002	0.0108	0.0103	567.0500
Government Office Building	8.98397	0.0969	0.8808	0.7399	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.9380	1,056.9380	0.0203	0.0194	1,063.2188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1999**	**1.8175**	**1.5267**	**0.0109**		**0.1381**	**0.1381**		**0.1381**	**0.1381**		**2,180.9831**	**2,180.9831**	**0.0418**	**0.0400**	**2,193.9436**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Unmitigated	15.1899	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7636					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0319	3.1300e-003	0.3427	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003		0.7334	0.7334	1.9300e-003		0.7818
Total	**15.1899**	**3.1300e-003**	**0.3427**	**3.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**		**0.7334**	**0.7334**	**1.9300e-003**		**0.7818**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Localized Operational Emissions

Unmitigated Operations LST Analysis Summary

Pollutant/Averaging Time	Project Impact (ug/m^3)	Background (ppm)	Project Impact (ppm)	Total	Threshold	Threshold Units	Exceeds Threshold?
1st High 1-Hour NO2	587.95	0.099	0.313	0.412	0.180	ppm	Yes
8th High 1-Hour NO2	397.92	0.061	0.212	0.273	0.100	ppm	Yes
Annual NO2	0.89	0.017	0.0005	0.017	0.030	ppm	No
1st High 1-Hour CO	483.68	6.1	0.4	6.5	20.0	ppm	No
1st High 8-Hour CO	166.53	4.6	0.1	4.7	9.0	ppm	No
1st High 24-Hour PM10	2.48	--	--	2.48	2.5	ug/m^3	No
Annual	0.01	--	--	0.01	1.00	ug/m^3	No
1st High 24-Hour PM2.5	2.42	--	--	2.4	2.5	ug/m^3	No

Source Receptor Area #12: South Central Los Angeles County[1]

Background Concentrations for LST Analysis[2]

Year	Max 1-Hour CO		Max 8-Hour CO	
	ppm	ug/m^3	ppm	ug/m^3
2014	6	6871	3.8	4352
2015	4.4	5039	3.3	3779
2016	4.4	5039	3.9	4466
2017	6.1	6986	4.6	5268
Maximum	**6.1**	**6986**	**4.6**	**5267.9**

Year	Max 1-Hour NO2 (CAAQS)		98th percentile (NAAQS)		Annual (CAAQS)	
	ppm	ug/m^3	ppm	ug/m^3	ppm	ug/m^3
2014	0.0682	128.3	0.0592	111.4	0.0156	29.35
2015	0.0783	147.3	0.0587	110.4	0.0169	31.80
2016	0.0637	119.8	0.0584	109.9	0.0156	29.35
2017	0.0991	186.4	0.0668	125.7	0.0161	30.29
Maximum	**0.0991**	**186.45**	**0.0668**	**125.68**	**0.017**	**31.80**

	2014-2016	0.059	110.6
NAAQS/CAAQS	2015-2017	0.061	115.3

CO	Averaging Time	ppm	ug/m^3
State	1-hr	20	22904
State/Federal	8-hr	9	10307
NO2	**Averaging Time**	**ppm**	**ug/m^3**
State	1-hr	0.18	339
Federal (98th percentile)	1-hr	0.1	188
State	Annual	0.03	56

1. The Project is located in SRA #5, Southeast Los Angeles County, however SCAQMD no longer provides monitoring data for this SRA. SRA 12 was used since is the closest monitoring site to the Project Site.

2. Background concentrations from SCAQMD Historical Monitoring Data
http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year

Unmitigated Operational Emissions

Pollutant	Daily Maximum Emissions (lbs/day)					Annual Emissions				
NOX						NOX				
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN
	lb/day					lb/year				
	1.821	49.888	49.888	49.89	29.94	663.400	1247.19	1247.19	1247.19	748.39
	g/s					g/s				
	0.010	3.143	3.143	3.143	1.886	0.010	0.050	0.050	0.050	0.030
CO										
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN					
	lb/day									
	1.869	28.445	28.445	28.44	17.07					
	g/s									
	0.010	1.792	1.792	1.792	1.075					
PM10						PM10				
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN
	lb/day					lb/year				
	0.139	1.575	1.575	1.58	0.95	50.400	39.385	39.385	39.385	23.633
	g/s					g/s				
	0.001	0.099	0.099	0.099	0.060	0.001	0.002	0.002	0.002	0.001
PM2.5										
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN					
	lb/day									
	0.14	1.538	1.538	1.54	0.92					
	g/s									
	0.001	0.097	0.097	0.097	0.058					

Mitigated Localized Operational Emissions

Mitigated Operations LST Analysis Summary

Pollutant/Averaging Time	Project Impact (ug/m^3)	Background (ppm)	Project Impact (ppm)	Total	Threshold	Threshold Units	Exceeds Threshold?
1st High 1-Hour NO2	15.46	0.099	0.008	0.107	0.180	ppm	No
8th High 1-Hour NO2	11.80	0.061	0.006	0.068	0.100	ppm	No
Annual NO2	0.66	0.017	0.0004	0.017	0.030	ppm	No
1st High 1-Hour CO	59.47	6.1	0.1	6.2	20.0	ppm	No
1st High 8-Hour CO	18.60	4.6	0.02	4.6	9.0	ppm	No
1st High 24-Hour PM10	0.05	--	--	0.05	2.5	ug/m^3	No
Annual	0.01	--	--	0.01	1.00	ug/m^3	No
1st High 24-Hour PM2.5	0.05	--	--	0.05	2.5	ug/m^3	No

Source Receptor Area #12: South Central Los Angeles County[1]

Background Concentrations for LST Analysis[2]

Year	Max 1-Hour CO		Max 8-Hour CO	
	ppm	ug/m^3	ppm	ug/m^3
2014	6	6871	3.8	4352
2015	4.4	5039	3.3	3779
2016	4.4	5039	3.9	4466
2017	6.1	6986	4.6	5268
Maximum	**6.1**	**6986**	**4.6**	**5267.9**

Year	Max 1-Hour NO2 (CAAQS)		98th percentile (NAAQS)		Annual (CAAQS)	
	ppm	ug/m^3	ppm	ug/m^3	ppm	ug/m^3
2014	0.0682	128.3	0.0592	111.4	0.0156	29.35
2015	0.0783	147.3	0.0587	110.4	0.0169	31.80
2016	0.0637	119.8	0.0584	109.9	0.0156	29.35
2017	0.0991	186.4	0.0668	125.7	0.0161	30.29
Maximum	**0.0991**	**186.45**	**0.0668**	**125.68**	**0.017**	**31.80**

	2014-2016	0.059	110.6
NAAQS/CAAQS	2015-2017	0.061	115.3

CO	Averaging Time	ppm	ug/m^3
State	1-hr	20	22904
State/Federal	8-hr	9	10307
NO2	**Averaging Time**	**ppm**	**ug/m^3**
State	1-hr	0.18	339
Federal (98th percentile)	1-hr	0.1	188
State	Annual	0.03	56

1. The Project is located in SRA #5, Southeast Los Angeles County, however SCAQMD no longer provides monitoring data for this SRA. SRA 12 was used since is the closest monitoring site to the Project Site.

2. Background concentrations from SCAQMD Historical Monitoring Data
http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year

Mitigated Operational Emissions

Pollutant	Daily Maximum Emissions (lbs/day)					Annual Emissions				
NOX						NOX				
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN
	lb/day					lb/year				
	1.821	4.157				663.400	103.93	103.93	103.93	62.37
	g/s					g/s				
	0.010	0.262				0.010	0.004	0.004	0.004	0.003
CO										
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN					
	lb/day									
	1.869	11.159								
	g/s									
	0.010	0.703	0.000	0.000	0.000					
PM10						PM10				
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN
	lb/day					lb/year				
	0.139	0.003				50.400	0.082	0.082	0.082	0.049
	g/s					g/s				
	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
PM2.5										
	ENERGY/AREA	ISD1	ISD2	ISD3	OFFCGEN					
	lb/day									
	0.14	0.003								
	g/s									
	0.001	0.0002								

Rancho Los Amigos-Operations - Los Angeles-South Coast County, Annual

Rancho Los Amigos-Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	549	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE CO2 intensity factor based on SCE's 2017 Sustainability Report for year 2017

Land Use - Project Specific Information

Vehicle Trips - Trip Rate Consistent with Traffic Study

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	2,983.9107	2,983.9107	0.1455	0.0353	2,998.0622
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Waste						0.0000	0.0000		0.0000	0.0000	122.7080	0.0000	122.7080	7.2518	0.0000	304.0040
Water						0.0000	0.0000		0.0000	0.0000	40.9666	637.6637	678.6303	4.2414	0.1063	816.3476
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**163.6747**	**11,233.3795**	**11,397.0541**	**12.0474**	**0.1416**	**11,740.4362**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	2,983.9107	2,983.9107	0.1455	0.0353	2,998.0622
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Waste						0.0000	0.0000		0.0000	0.0000	122.7080	0.0000	122.7080	7.2518	0.0000	304.0040
Water						0.0000	0.0000		0.0000	0.0000	40.9666	637.6637	678.6303	4.2414	0.1063	816.3476
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**163.6747**	**11,233.3795**	**11,397.0541**	**12.0474**	**0.1416**	**11,740.4362**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Unmitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,622.8245	2,622.8245	0.1386	0.0287	2,634.8302
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,622.8245	2,622.8245	0.1386	0.0287	2,634.8302
NaturalGas Mitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320
NaturalGas Unmitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815
Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815
Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	540.2114	0.0285	5.9000e-003	542.6841
Government Office Building	2.18232e+006	543.4462	0.0287	5.9400e-003	545.9337
Government Office Building	4.09185e+006	1,018.9615	0.0538	0.0111	1,023.6257

Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	418.7538	0.0221	4.5800e-003	420.6706
Unenclosed Parking with Elevator	407400	101.4517	5.3600e-003	1.1100e-003	101.9160
Total		**2,622.8244**	**0.1386**	**0.0287**	**2,634.8302**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	540.2114	0.0285	5.9000e-003	542.6841
Government Office Building	2.18232e+006	543.4462	0.0287	5.9400e-003	545.9337
Government Office Building	4.09185e+006	1,018.9615	0.0538	0.0111	1,023.6257
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	418.7538	0.0221	4.5800e-003	420.6706
Unenclosed Parking with Elevator	407400	101.4517	5.3600e-003	1.1100e-003	101.9160
Total		**2,622.8244**	**0.1386**	**0.0287**	**2,634.8302**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Unmitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	678.6303	4.2414	0.1063	816.3476
Unmitigated	678.6303	4.2414	0.1063	816.3476

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	129.129 / 79.1435	678.6303	4.2414	0.1063	816.3476

Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**678.6303**	**4.2414**	**0.1063**	**816.3476**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	129.129 / 79.1435	678.6303	4.2414	0.1063	816.3476
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**678.6303**	**4.2414**	**0.1063**	**816.3476**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e

	MT/yr			
Mitigated	122.7080	7.2518	0.0000	304.0040
Unmitigated	122.7080	7.2518	0.0000	304.0040

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	604.5	122.7080	7.2518	0.0000	304.0040
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**122.7080**	**7.2518**	**0.0000**	**304.0040**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	604.5	122.7080	7.2518	0.0000	304.0040
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**122.7080**	**7.2518**	**0.0000**	**304.0040**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CO Hotspots

Intersection Number	Intersection Name	LOS	Intersection Volume	LOS	Intersection Volume
City of Downey		AM		PM	
6	Garfield Avenue/Gardendale Street	C		B	
12	Old River School Road/Imperial Highway	E	4,424	D	3,858
13	Erickson Avenue/W. Imperial Highway	B		B	
14	Erickson Avenue/E. Imperial Highway	B		B	
15	Industrial Avenue/Gardendale Street	F	1,524	D	1,142
16	Erickson Avenue/Gardendale Street	F	1,473	F	1,090
17	Arizona Avenue/ Gardendale Street	F	1,528	C	
19	Paramount Boulevard/Imperial Highway	D	5,475	D	5,222
20	Paramount Boulevard/Gardendale Street	D	3,836	D	3,637
23	Downey Avenue/Gardendale Street	B		A	
24	Brookshire Ave-N Somerset Ranch Road/Gardendale Street	B		B	
25	Lakewood Boulevard/Imperial Highway	C		D	5,440
26	Lakewood Boulevard/Gardendale Street	D	3,801	D	3,782
27	Erickson Avenue/Amigos Avenue	B		B	
City of Southgate					
2	Wright Road/I-710 SB Off-Ramp-Abbot Road	C		C	
3	Wright Road/Imperial Highway	F	4,905	E	4,756
4	Ruchit Road-Garfield Place/Imperial Highway	D	4,759	C	
5	Garfield Avenue/Imperial Highway	E	5,443	D	4,869
7	Garfield Avenue/Monroe Avenue	F	1,802	E	1,625
8	Gardendale Street/Monroe Avenue	C		B	
9	Garfield Avenue/Main Street	C		A	
18	Industrial Avenue-Arizona Avenue/Main Street	B		A	
21	Paramount Boulevard/N.Somerset Ranch Road	D	3,615	B	
City of Paramount					
10	Garfield Avenue/N.Somerset Ranch Road	C		B	
11	Garfield Avenue/S.Somerset Ranch Road	C		C	
City of Lynwood					
1	Atlantic Avenue/Imperial Highway	C		C	

Maximum Peak Hour Intersection Volume	5,475
Maximum Daily Volume	54,750

-Intersection volumes from Project Traffic Impact Study prepared by LLG, March 2019.
-Highlighted cells indicates intesections that do not have a LOS of D,E, or F and are therefore not evaluated in the CO Hotpsot Analysis.

Estimated Cancer Burden

RANCHOS LOS AMIGOS SOUTH CAMPUS PROJECT
Draft Environmental Impact Report
Estimated Cancer Burden (in area > 1 in one million cancer risk)

- Total Cancer risk estimated to drop below 1 in 1 million where the unitized concentration falls below 5E+04.
- The distance at which unit concentration falls to below 5E+04 is within 175 meters (0.18 km) from the approximate center of the Project Site (i.e., the dominant sources of on-site cancer risk).

Estimated Cancer Burden

Radius:	0.18	km
Area:	0.10	km^2
Population in Are	50	County Office of Public Safety Employees
	50	Rose Float Association Volunteers
	2,570	Staff to be relocated to South Campus (see DEIR Section 2.2, Project Background)
	5,589	111,772 Downey Residents, estimated 5% of residents within the cancer burden area (population from Section 5.4.4 Population and Housing
	1,000	Miscellaneous population and employees in area (conservative assumption)
	9,259	Total Residents+Employees in Cancer Burden Area
Cancer Burden:	0.37	
Indicator of Signi	0.5	
Exceeds Indicato	No	

RANCHOS LOS AMIGOS SOUTH CAMPUS PROJECT
Draft Environmental Impact Report
St. Pius X-St. Matthias Academy
Estimated Cancer Burden (in area > 1 in one million cancer risk)

- Total Cancer risk estimated to drop below 1 in 1 million where the unitized concentration falls below 5E+04.
- The distance at which unit concentration falls to below 5E+04 is within 175 meters (0.18 km) from the approximate center of the Project site (i.e., the dominant sources of on-site cancer risk).

Estimated Cancer Burden

Radius:	0.18	km
Area:	0.10	km^2
Population in Are	36	Staff at St. Pius X-St. Matthias Academy
	400	Approximate number of students enrolled at St. Pius X-St. Matthias Academy
	436	Total Staff+Students in Cancer Burden Area
Cancer Burden:	0.003	
Indicator of Signi	0.5	
Exceeds Indicato	No	

RANCHOS LOS AMIGOS SOUTH CAMPUS PROJECT
Draft Environmental Impact Report
Rancho Los Amigos KinderCare
Estimated Cancer Burden (in area > 1 in one million cancer risk)

- Total Cancer risk estimated to drop below 1 in 1 million where the unitized concentration falls below 5E+04.
- The distance at which unit concentration falls to below 5E+04 is within 175 meters (0.18 km) from the approximate center of the Project site (i.e., the dominant sources of on-site cancer risk).

Estimated Cancer Burden

Radius:	0.18	km
Area:	0.10	km^2
Population in Are	14.80	Staff at Rancho Los Amigos KinderCare assuming a 1:5 ration (teacher per student), plus director and 2 staff members
	59	Children enrolled at Rancho Los Amigos KinderCare (capacity for the facility) (facility number 198006098)
	74	Total Staff+Students in Cancer Burden Area
Cancer Burden:	0.001	
Indicator of Signi	0.5	
Exceeds Indicato	No	

B-2 Calculations Memorandum

80 South Lake Avenue
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Pasadena, CA 91101
626.204.6170 phone
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esassoc.com

memorandum

date	September 12, 2019
to	
cc	
from	Heidi Rous and Victoria Hsu, ESA
subject	Estimating the air quality and greenhouse gas emissions impacts using EMFAC2017

As background, the California Emissions Estimator Model® (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The most recent version of CalEEMod is version 2016.3.2.

CalEEMod utilizes emission factors for off-road equipment from the California Air Resources Board's (CARB) OFFROAD model and on-road vehicles from CARB's EMission FACtors (EMFAC) model.

The EMFAC emissions model is developed and used by CARB to assess emissions from on-road vehicles including cars, trucks, and buses in California, and to support CARB's regulatory and air quality planning efforts to meet the Federal Highway Administration's transportation planning requirements. The United States Environmental Protection Agency (USEPA) approves EMFAC for use in State Implementation Plan and transportation conformity analyses.

In accordance with the California Environmental Quality Act (CEQA), the Notice of Preparation (NOP) for the Rancho Los Amigos South Campus Project (Project) was published on August 9, 2017. At that time, and throughout the approximately two-year process of preparing the Draft Environmental Impact Report (EIR), EMFAC2014 was the latest model for calculating air quality and greenhouse gas emissions from on-road mobile sources approved by USEPA. Accordingly, the Draft EIR calculated Project emissions using EMFAC2014, which is embedded in the most recent CalEEMod version 2016.3.2. On August 15, 2019, during the final stages of preparation of the Draft EIR, the USEPA approved EMFAC2017.

According to CARB, EMFAC2017 updated vehicle population in the fleet characterization, integrated more recent and extensive vehicle emission testing, and included both household travel survey data and heavy-duty vehicle activity data. Emission factors decrease over time as a general trend in both EMFAC2014 and EMFAC2017. Based on its research, CARB has revised the rate of decline in EMFAC2017 as compared to EMFAC2014. The change in the rate of decline in emission factors depends on the criteria air pollutant, vehicle

type, year of analysis, use scenario, and activity profile (**Table 1**) (CARB, 2017c and CARB, 2017d). For the Project, EMFAC2017 would impact both construction and operation as both have emissions from on-road mobile sources. These sources include worker, vendor, and hauling trips.

This memorandum explores the differences between EMFAC2017 and EMFAC2014 with regard to the Project and its environmental impacts for air quality and GHG emissions. Specifically, it evaluates whether updating the Draft EIR analysis to calculate emissions using EMFAC2017 would have any effect on the significance thresholds and resulting significance conclusions.

TABLE 1
KEY DIFFERENCES BETWEEN EMFAC2017 AND EMFAC2014

Light-duty Vehicles	**EMFAC 2017**
In-use emissions	• Net NOx increase • Higher start emission rates for criteria pollutants • Lower running emission rates • Much less emission deterioration
Activity profile	• Lower number of start per day • Lower mileage accrual rates for newer vehicles • Higher mileage accrual rates for older vehicles • Updated mileage accrual rates for PEVs
Heavy-duty Vehicles	**EMFAC 2017**
In-use emissions	• Higher NOx emissions (NOx increase) • Higher PM emissions (PM increase) • Lower start emission rates (NOx decrease) • Higher idling emission rate (PM and NOx increase) • Higher PM deterioration (PM increase)
Activity profile	• Higher portion of low speed activities (PM and NOx increase) • Lower number of cold starts per day (for several major categories) • Lower number of idle hours (for most categories)
Fleet Characterization	**EMFAC 2017**
	• Higher gasoline, diesel, and electric vehicle populations for years 2013 through 2016 • Increased penetration of 2010+MY Engine Heavy-Heavy Duty trucks

Air Quality: Construction

During construction, the heavy heavy duty trucks (HHDT)[1] used for truck trips would dominate the on-road emissions. Using EMFAC2017 for HHDT, emission factors for PM2.5 and PM10 would be one to two times greater while reactive organic gas (ROG), CO, and SOx would be generally lower or similar compared to EMFAC2014 for aggregated speed (**Table 2**). For a conservative EMFAC2017 analysis, the 349 vendor truck trips during Phase D - ISD Building Construction[2] were assumed to all be HHDT. Converting from EMFAC2014 to EMFAC2017 for vendor trips would only affect Phase D, as shown in **Table 4**. Neither Phase D nor any overlap with Phase D results in the maximum daily emissions in the initial analysis with EMFAC2014 or in the

1 HHDT is a vehicle class used in EMFAC. It was used to have a conservative analysis for calculating emissions from truck trips.

2 Phase D – ISD Building Construction is the name used in the model for Section 3.2 Air Quality of the EIR. It is the same phase as "Building Construction" in Table 2-5, Estimated Construction Schedule, of the Project Description.

estimation with EMFAC2017. Therefore, the use of EMFAC2017 in place of EMFAC2014 for construction would have no effect on significance thresholds and resulting conclusions.

Worker trips, which are assumed to be light duty passenger vehicles, would affect all phases of construction. For passenger vehicles, aggregated speed during the years of construction, ROG, NOx, PM10, PM2.5, and SOx emission factors are lower in EMFAC2017 by as much as 24 percent than in EMFAC2014 (**Table 3**). CO emission factors are higher by as much as 14 percent in EMFAC2017 compared to EMFAC2014. If the analysis were conducted using the newly approved EMFAC2017, applying these percentages across the board for construction (as it applies to worker trips) would only increase CO emission estimates, but all criteria air pollutants would remain well below the significance threshold (**Table 4**).

TABLE 2
PERCENT CHANGE IN DIESEL HHDT RUNNING EXHAUST EMISSION FACTORS FROM EMFAC2014 TO EMFAC2017 FOR AGGREGATED SPEED

Year	ROG	NOX	CO	SOX	PM10	PM2.5
2020	1%	2%	-30%	-7%	227%	227%
2021	-15%	1%	-41%	-8%	205%	205%
2022	-45%	-4%	-59%	-9%	101%	101%
2050	-76%	55%	-72%	-32%	258%	258%

TABLE 3
PERCENT CHANGE IN GAS LDT RUNNING EXHAUST EMISSION FACTORS FROM EMFAC2014 TO EMFAC2017 FOR AGGREGATED SPEED

Year	ROG	NOX	CO	SOX	PM10	PM2.5
2020	0%	-17%	14%	-4%	-9%	-9%
2021	-7%	-21%	11%	-3%	-13%	-13%
2022	-13%	-24%	8%	-3%	-17%	-17%
2050	-53%	-17%	36%	-2%	-23%	-23%

TABLE 4 (TABLE 3.2-6 OF THE DRAFT EIR UPDATED)
MAXIMUM MITIGATED REGIONAL CONSTRUCTION EMISSIONS (POUNDS PER DAY) [A]

Source	VOC	NO_X	CO	SO_2	PM10 [b]	PM2.5 [b]
Phase H-Campus Demolition - 2019	1	6	29	<1	1	<1
Phase H-Campus Demolition - 2020	1	6	29	<1	1	<1
Phase I-Campus Site Preparation - 2020	1	5	56	<1	19	11
Phase L-Campus Soils Remediation - 2020	2	51	40	<1	4	3
Phase A-ISD Demolition - 2020	1	18	31	<1	4	1
Phase J-Campus Grading - 2020	1	11	35	<1	3	2
Phase K-Campus Landscaping - 2020	1	3	16	<1	<1	<1
Phase B-ISD Site Preparation - 2020	2	11	57	<1	20	11
Phase C-ISD Grading/Excavation - 2020	1	7	34	<1	3	2

Source	VOC	NO_X	CO	SO_2	PM10 [b]	PM2.5 [b]
Phase F-ISD Utils/Street Improvements - 2020	1	2	24	<1	<1	<1
Phase F-ISD Utils/Street Improvements - 2021	1	2	24	<1	<1	<1
Phase D-ISD Building Construction - 2020	7	46	82	<1	12	4
Contribution to Maximum Daily Emissions by Vendor Trips	***1.2***	***37.1***	***9.7***	***0.1***	***2.4***	***0.8***
Percent change in Vendor Trip Emissions with EMFAC2017	***1%***	***2%***	***-30%***	***-7%***	***227%***	***227%***
NEW Phase D-ISD Building Construction – 2020 with EMFAC2017	***7***	***47***	***79***	***<1***	***17***	***6***
Phase D-ISD Building Construction - 2021	6	42	78	<1	12	3
Phase D-ISD Building Construction - 2022	6	40	75	<1	12	3
Phase G-ISD Paving - 2021	1	1	18	<1	<1	<1
Phase E-ISD Architectural Coatings - 2022	74	1	13	<1	2	1
Overlapping Phases						
2020						
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation	4	56	96	<1	24	13
Phase I-Campus Site Preparation + Phase L-Campus Soils Remediation + Phase A-ISD Demolition	5	74	126	<1	28	14
Phase L-Campus Soils Remediation + Phase A-ISD Demolition + Phase J Campus Grading	5	79	105	<1	11	5
Phase A-ISD Demolition + Phase J Campus Grading	2	28	65	<1	7	3
Phase A-ISD Demolition + Phase K-Campus Landscaping	2	21	47	<1	4	1
Phase K-Campus Landscaping + Phase B-ISD Site Preparation	2	15	73	<1	20	11
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	7	48	105	<1	12	4
NEW Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction with EMFAC2017	***7***	***49***	***102***	***<1***	***17***	***6***
2021						
Phase F-ISD Utils/Street Improvements + Phase D-ISD Building Construction	7	44	102	<1	12	4
Phase D-ISD Building Construction + Phase G-ISD Paving	7	43	96	<1	12	4
Maximum Daily Emissions	**74**	**79**	**126**	**<1**	**28**	**14**
Contribution to Maximum Daily Emissions by Worker Trips	***18.1***	***2.8***	***37***	***<1***	***25.0***	***12.3***
Percent change in Worker Trip Emissions with EMFAC2017[c]	***0%***	***-17%***	***14%***	***-4%***	***-9%***	***-9%***
NEW Maximum Daily Emissions with EMFAC2017	***74***	***79***	***131***	***<1***	***26***	***13***
SCAQMD Regional Significance Threshold	75	100	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No
Exceeds Thresholds for New Maximum Daily Emissions with EMFAC2017?	***No***	***No***	***No***	***No***	***No***	***No***

[a] Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Appendix B.

[b] Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

c Percentage difference for EMFAC2017 compared to EMFAC2014 for 2020 using aggregated speed for RunEx Emission Factors

Source	VOC	NO_X	CO	SO_2	PM10 [b]	PM2.5 [b]

SOURCE: ESA, 2019.

Air Quality: Operation

The on-road mobile emissions during operation would mainly come from the passenger cars. In practice for the Project, there is the potential for trucks to be used for delivery or other service needs to the offices. For the purposes of this estimation, it is assumed that 20 percent of the operational mobile emissions come from trucks starting in the operational year of 2022. While the 2022 NOx emission factor decreased slightly for HHDT from EMFAC2014 to EMFAC2017, larger increases are consistently seen in future years when forecasting out to 2050 (**Table 2**). In order to estimate the long-term effects, 2050 emission factors from EMFAC2017 for both passenger cars (LDT) and trucks (HHDT) were used in the analysis below. Therefore, if the analysis were conducted using the newly approved EMFAC2017 factors for mobile emissions during operation, there would be no change to the Draft EIR's conclusion of significant and unavoidable (**Table 5**).

TABLE 5 (TABLE 3.2-8 OF THE DRAFT EIR UPDATED)
MAXIMUM MITIGATED REGIONAL OPERATIONAL EMISSIONS (POUNDS PER DAY)[a]

Source	VOC	NO_X	CO	SO_2	PM10	PM2.5
Proposed Project						
Area (Coating, Consumer Products, Landscaping)	15	<1	<1	<1	<1	<1
Energy	<1	2	2	<1	<1	<1
Mobile	12	53	134	<1	38	10
Percent change in Passenger Car Emissions with EMFAC2017 [b]	***-53%***	***-17%***	***36%***	***-2%***	***-23%***	***-23%***
Percent change in truck emissions with EMFAC2017 [c]	***-76%***	***55%***	***-72%***	***-32%***	***258%***	***258%***
NEW Mobile with EMFAC2017	***5***	***52***	***153***	***<1***	***51***	***13***
Stationary (1 Emergency Generator)	<1	4	11	<1	<1	<1
Total Regional Emissions	**27**	**59**	**147**	**<1**	**38**	**10**
NEW Total Regional Emissions with EMFAC2017	***20***	***58***	***166***	***<1***	***51***	***13***
SCAQMD Regional Significance Threshold	55	55	550	150	150	55
Exceeds Thresholds?	No	**Yes**	No	No	No	No
Exceeds Thresholds with EMFAC2017?	***No***	***Yes***	***No***	***No***	***No***	***No***

a Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Appendix B.
b Percentage difference for EMFAC2017 compared to EMFAC2014 for 2050 using aggregated speed for RunEx Emission Factors
c Percentage difference for EMFAC2017 compared to EMFAC2014 for 2050 using aggregated speed for RunEx Emission Factors
SOURCE: ESA, 2019.

Greenhouse Gases

For GHGs, EMFAC2017 contains a new GHG module, consistent with CARB's official GHG inventory. The module calculates tailpipe CO_2 emissions using complete combustion methodology and replaces previous CO_2 emission factors derived from vehicle testing. CH_4 and N_20 emission factors are updated for both light and heavy-duty vehicles using recent vehicle testing data. The module updates fuel efficiency assumptions and reflects the benefits of regulations adopted before the model release date. The overall change to CO_2e from EMFAC2014 to

EMFAC2017 is about a five percent increase, mainly driven by CO_2 (CO_2 estimates increase by approximately three percent; CH_4 has no significant change; N_2O estimates increase by 50 percent) (CARB, 2017c). If the analysis were conducted using the newly approved EMFAC2017 instead of the default EMFAC2014 built into CalEEMod 2016.3.2 for mobile sources, GHG emissions would be approximately 12,570 $MTCO_2e$/year (**Table 6**). GHG emissions would continue to exceed the SCAQMD threshold of 3,000 MTCO2e/year and be considered significant and unavoidable.

TABLE 6 (TABLE 3.6-5 IN THE DRAFT EIR UPDATED)
UNMITIGATED ANNUAL GREENHOUSE GAS EMISSIONS

Emissions Sources	CO_2e (Metric Tons per Year) [a]
Area	<1
Electricity	2,635
Natural Gas	363
Mobile	7,622
Percent change with EMFAC2017	***5%***
NEW Mobile	***8003***
Waste	304
Water	816
Stationary (Emergency Generators)	237
Construction	212
Annual Project Emissions	12,189
Annual Project Emissions with EMFAC2017	***12,570***
SCAQMD Interim GHG Screening Threshold	3,000
Exceeds Threshold?	Yes
Exceeds Threshold with EMFAC2017?	***Yes***

[a] Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Appendix F.

[b] CO_2e emissions are calculated using the global warming potential values from the Intergovernmental Panel on Climate Change Fourth Assessment Report.

SOURCE: ESA, 2019.

APPENDIX C
Tree Inventory

ESA

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

August 28, 2017

Addie Farrell
Senior Managing Associate
Environmental Science Associates
80 South Lake Avenue, Suite 570
Pasadena, California 91101

Re: Los Angeles County Rancho los Amigos South Campus – Arboricultural Consulting Services

Dear Ms. Farrell,

Enclosed are the tree evaluation data, photographic, and graphic exhibits for the trees located on the Rancho los Amigos South Campus that Carlberg Associates inventoried in July and August 2017. We were retained to assist ESA in support of their CEQA/NEPA documentation and evaluated 598 trees during our site visits conducted between July 17 and August 18, 2017.

Of these 598 trees,

- 72 tree species are represented
- Five species are California natives
- One species is "protected" by the Los Angeles County Oak Tree Ordinance No. 22.56.2050 (coast live oak; seven trees are represented – nos. 189, 191, 200, 202, 244, 245, 385)
- Seven species are palms
- 13 species have edible fruit
- 12 trees are typically prized for their showy flowers
- 27 trees appear to be in irreversible decline, and
- 23 trees are dead, most likely as a result of drought stress

Table 1 on the next page summarizes the inventoried tree species. The full inventory is enclosed at the end of this letter. Exhibit 1 illustrates the boundaries of our inventory. Eleven TreeWorks® Location Exhibits are

Santa Monica Office
828 Fifth Street, Suite 3
Santa Monica, California 90403
Office: 310.451.4804

Sierra Madre Office
80 West Sierra Madre Boulevard, #241
Sierra Madre, California 91024
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www.cycarlberg.com

enclosed after the full inventory and illustrate the tree locations as recorded in the field with our TreeWorks GPS/GIS inventory software program. Photographs of all trees are included in the enclosed photograph exhibit.

TABLE 1 - SUMMARY OF TREE SPECIES LOCATED ON THE SOUTH CAMPUS OF RANCHO LOS AMIGOS[1]

Common Name	Botanical Name	California native	Quantity represented
Afghan pine	*Pinus eldarica*	No	1
Aleppo pine	*Pinus halepensis*	No	3
American sweetgum	*Liquidambar styraciflua*	No	8
arborvitae	*Thuja occidentalis*	No	2
Australian brush cherry	*Syzygium australe*	No	2
avocado	*Persea americana*	No	9
black locust	*Robinia pseudoacacia*	No	3
blackwood acacia	*Acacia melanoxylon*	No	6
bottle tree	*Brachychiton populneus*	No	5
Brazilian pepper	*Schinus terebinthifolius*	No	19
bunya bunya	*Araucaria bidwillii*	No	5
California fan palm	*Washingtonia filifera*	**Yes**	7
camphor	*Cinnamomum camphora*	No	29
Canary Island date palm	*Phoenix canariensis*	No	16
Canary Island pine	*Pinus canariensis*	No	51
Cape cheesewood	*Pittosporum viridiflorum*	No	1
carob	*Ceratonia siliqua*	No	12
carrotwood	*Cupaniopsis anacardioides*	No	1
cherimoya	*Annoa cherimola*	No	6
Chinese elm	*Ulmus parvifolia*	No	19
Chinese flame	*Koelreuteria bipinnata*	No	7

[1] Note: This report comprises the 598 trees located on the South Campus of Rancho los Amigos. Tree nos. 1-41 are located at the "Sports Center," the five-acre portion at the south edge of the campus. They are addressed in a separate report.

Common Name	Botanical Name	California native	Quantity represented
cliff date palm	*Phoenix rupicola*	No	1
coast live oak	*Quercus agrifolia*	**Yes**	7
coast redwood	*Sequoia sempervirens*	**Yes**	10
crape myrtle	*Lagerstroemia indica*	No	5
deodar cedar	*Cedrus deodara*	No	10
edible fig	*Ficus carica*	No	4
elderberry	*Sambucus mexicana*	**Yes**	1
fern pine	*Afrocarpus gracilior*	No	2
flowering ash	*Fraxinus ornus*	No	3
Fremont cottonwood	*Populus fremontii*	**Yes**	1
glossy-leaf privet	*Ligustrum lucidum*	No	1
Hollywood juniper	*Juniperus chinensis* 'Torulosa'	No	5
Indian laurel fig	*Ficus microcarpa*	No	5
Italian cypress	*Cupressus sempervirens*	No	12
Italian stone pine	*Pinus pinea*	No	1
jacaranda	*Jacaranda mimosifolia*	No	33
Japanese loquat	*Eriobotrya japonica*	No	1
Japanese maple	*Acer palmatum*	No	1
Japanese persimmon	*Diospyros kaki*	No	1
jujube	*Ziziphus jujuba*	No	1
juniper	*Juniperus sp.*	No	2
laurel-leaf snailseed	*Cocculus laurifolius*	No	2
lemon bottlebrush	*Callistemon citrinus*	No	4
lemon-scented gum	*Corymbia citriodora*	No	18
London plane tree	*Platanus* x *acerifolia*	No	8
macadamia nut	*Macadamia integrifolia*	No	1

Common Name	Botanical Name	California native	Quantity represented
Mexican fan palm	*Washingtonia robusta*	No	101
mulberry	*Morus alba*	No	1
myrtle	*Myrtus communis*	No	1
olive	*Olea europaea*	No	1
orange tree	*Citrus sinensis*	No	1
paperbark	*Melaleuca quinquenervia*	No	6
plumeria	*Plumeria sp.*	No	1
queen palm	*Syagrus romanzoffiana*	No	7
Queensland pittosporum	*Pittosporum rhombifolium*	No	1
red ironbark	*Eucalyptus sideroxylon*	No	1
red river gum	*Eucalyptus camaldulensis*	No	1
roundleaf fountain palm	*Livistona rotundifolia*	No	10
rusty-leaf fig	*Ficus rubiginosa*	No	10
Senegal date palm	*Phoenix reclinata*	No	2
shamel ash	*Fraxinus uhdei*	No	9
shiny xylosma	*Xylosma congestum*	No	2
southern magnolia	*Magnolia grandiflora*	No	54
Spanish dagger	*Yucca gloriosa*	No	3
sweetshade	*Hymenosporum flavum*	No	7
unknown dead tree	*N/A*	No	2
variegated orchid tree	*Bauhinia variegata*	No	3
weeping fig	*Ficus benjamina*	No	2
white sapote	*Casimiroa edulis*	No	4
windmill palm	*Trachycarpus fortunei*	No	14
yew pine	*Podocarpus macrophyllus*	No	2
TOTALS	**72 species**		**598 trees**

The southern campus of Ranch los Amigos contains many beautiful trees and several unique specimens. A number of trees could be designated as scenic. A scenic tree is highly visible, prominent and possesses unique or distinctive aesthetic qualities due to its size, structure, unusual specimen, etc. The following individual trees, in our opinion, could qualify as scenic due to their age, stature, and their distinctive aesthetic qualities:

Tree Number	Common Name
87	Bunya bunya tree
88	Bunya bunya tree
121	Camphor tree
122	Camphor tree
128	Bunya bunya tree
355	Morton Bay fig
379	Bunya bunya
511	Italian stone pine
530	Bunya bunya tree

In addition to the individual trees listed above, other individuals or groups of trees merit consideration for retention based on their age, stature, health, potential for relocation on-site, and their statement in the landscape. For example, the Canary Island pines that line the southern side of Consuelo Street west of Paramount create a dramatic statement as you enter the property from the east. Similarly, the mature Mexican and California date palms and Canary Island date palms around the campus provide a stately and classic southern California feel to the campus. Clusters of fruit trees and smaller palms, as well as stately native oaks and bright flowering trees, provide oases of green and spots of color throughout the campus. Trees that are highly suitable for retention are noted in the master inventory table. Trees that are moderately suited for retention may need pruning, additional irrigation, or other treatment. Trees that are noted as low suitability are in decline or have defects that render them poor choices for retention or relocation.

The onsite coast live oaks are protected by Los Angeles County Ordinance and every effort should be made to preserve them in place. The protected zone for oak trees extends five feet beyond the dripline, or 15 feet from the trunk, whichever is greater. This is the Tree Protection Zone (TPZ). Tree protection fencing will be required and any encroachment or removal requests must be approved by the County of Los Angeles Department of Regional Planning prior to commencement of any work onsite.

Please feel welcome to contact me at 626.428.5072, if you have any immediate questions or concerns.

Respectfully submitted,





Christy Cuba, Registered Consulting Arborist, #502
Sierra Madre Office

christy@cycarlberg.com

Encl.: Resumes of key personnel
Arborist Disclosure Statement
Health and Structure Grade Definitions
Exhibit 1 – South Campus Project Area – Tree Inventory Boundaries
Table 2 – Rancho los Amigos South Campus Tree Inventory
TreeWorks® Exhibits (11 pages) – Tree Location Maps
Photograph Exhibit of Inventoried Trees (77 pages)

This letter plus the enclosures comprise a total of 168 pages. Unauthorized separation or removal of any portion of this report deems it invalid as a whole.

Conditions represented in this report are limited to the inventory date and time. Risk assessments were not requested nor performed for the purposes of this report. Ratings for health, aesthetics, and structure do not constitute a health or structural guarantee beyond the date and time of the inspection.

CHRISTY CUBA
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Education — B.A., Environmental Analysis & Design, Cum Laude, University of California, Irvine, 1993
Graduate, International Society of Arboriculture Certification Study Program, April 1998
Graduate, Consulting Academy, American Society of Consulting Arborists, February 2008

Experience — Senior Arborist/Associate, Carlberg Associates, 2011 - Present
Director of Environmental Services & Senior Arborist, Land Design Consultants, Pasadena, 1994 – 2011
Park Specialist/Naturalist, City of Monrovia, 1988-1996

Certificates — Certified Arborist, WE-1982A, International Society of Arboriculture, 1998
Registered Consulting Arborist, #502, American Society of Consulting Arborists, 2011
Qualified Tree Risk Assessor, International Society of Arboriculture, 2013

AREAS OF EXPERTISE

Ms. Cuba is experienced in the following areas of tree management and preservation:

- Tree health & risk assessments
- Inventories & reports for native and non-native trees
- Master planning
- Evaluation of trees for preservation, encroachment, relocation, restoration, and hazards
- Value assessments (appraisals) for native and non-native trees
- Post-fire inventories, assessments, and valuations for native and non-native trees
- Guidelines for tree preservation, planting, pruning and maintenance specifications
- Pest and disease identification
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation
- Review of landscape plans for mitigation compliance & fire fuel modification planning
- Preparation of native habitat and woodland management plans
- Performance of long-term mitigation compliance monitoring & reporting
- Expert testimony

PREVIOUS CONSULTING EXPERIENCE

Ms. Cuba has performed hundreds of tree inventories, health evaluations, impact analyses, hazard, and value assessments for counties, cities, sanitation districts, and water districts, as well as private developers, architects, engineers, and homeowners. She has over 24 years of experience in arboriculture and is trained in environmental planning, state and federal regulatory permitting, preparation of CEQA analyses, and habitat mitigation planning and implementation. Representative clients include:

City of Pasadena
City of Monrovia
City of Santa Clarita
Los Angeles County Fire Department
California Institute of Technology
Mia Lehrer + Associates
Pulte/Centex Homes
Newhall Land and Farming
KOVAC Design Studio
Pamela Burton & Company
Chandler School
Mesivta of Greater Los Angeles
San Diego Gas & Electric
Quinn, Emanuel, Urquhart and Sullivan (attorneys at law)
The New Home Company
City of Sierra Madre
Belzberg Architects
Occidental College
Rose Bowl Stadium
Las Encinas Hospital/Aurora Health Services
EPT Design
Gensler Architects
The Claremont Colleges (Pomona College, Claremont University Consortium, Claremont Graduate University)

AFFILIATIONS

Ms. Cuba serves with the following national and regional professional organizations:

- Member, American Society of Consulting Arborists
- Member, International Society of Arboriculture, Western Chapter
- Past President (2015), Street Tree Seminar, Inc.

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Education — B.A., Environmental Studies, University of California, Santa Barbara, 2000

Experience — Project Planner & Senior Arborist, Land Design Consultants, Inc.
Pasadena, 1999 – 2014

Certificates — Certified Arborist, WE-7011A, International Society of Arboriculture, 2004
Qualified Tree Risk Assessor, International Society of Arboriculture, 2015

AREAS OF EXPERTISE

Mr. McAllaster is experienced in the following areas of tree management and preservation:

- Tree health & risk assessments
- Inventories & reports for native and non-native trees
- Master planning
- Evaluation of trees for preservation, encroachment, relocation, restoration, and hazards
- Construction monitoring and reporting
- Value assessments (appraisals) for native and non-native trees
- Post-fire inventories, assessments, and valuations for native and non-native trees
- Guidelines for tree preservation, planting, pruning and maintenance specifications
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation
- Review of landscape plans for mitigation compliance & fire fuel modification planning
- Performance of long-term mitigation compliance monitoring & reporting

PREVIOUS CONSULTING EXPERIENCE

Mr. McAllaster has performed hundreds of tree inventories, health evaluations, impact analyses, hazard, and value assessments for counties, cities, sanitation districts, and water districts, as well as private developers, architects, engineers, and homeowners. He has over 11 years of experience in arboriculture and is trained in environmental planning, state and federal regulatory permitting, preparation of CEQA analyses, and habitat mitigation planning and implementation. Representative clients include:

City of Pasadena
City of Santa Clarita
City of Glendora
Los Angeles County Fire Department
Los Angeles County Sanitation Districts
Newhall County Water District
Pulte/Centex Homes
Newhall Land and Farming
E & S Ring, Inc.
Hollywood Forever Cemetery
Archdiocese of Los Angeles
St. John's Hospital, Santa Monica
Kovac Architects
Tim Barber, Ltd., Architects
Ojai Valley Community Hospital
The Kibo Group
El Monte Garden Senior Center
IMT Capital, LLC
San Diego Gas & Electric
Corky McMillin Companies
City of South Gate
City of Arcadia
D2 Development
Burrtec, Inc.
The Claremont Colleges
The New Home Company
William Carey University
Claremont Golf Course
Universal Hilton
Gensler Architects
Marmol Radziner, Architects
NAC Architecture
Aurora/Signature Health Services
Monte Vista Grove Homes
Highpointe Communities
Claremont University Center

AFFILIATIONS

Mr. McAllaster serves with the following national and regional professional organizations:

- Member, International Society of Arboriculture, Western Chapter
- Member, Street Tree Seminar, Inc.

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees contribute greatly to our enjoyment and appreciation of life. Nonetheless, they are subject to the laws of gravity and physiological decline. Therefore, neither arborists nor tree owners can be reasonably expected to warrant unfailing predictability or elimination of risk.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

HEALTH AND STRUCTURE GRADE DEFINITIONS

Health and structure ratings of the trees are based on the archetype tree of the same species through a subjective evaluation of its physiological health, aesthetic quality, and structural integrity.

Overall physiological condition (health) and structural condition were rated A-F:

Health

A) Outstanding – Exceptional trees of good growth form and vigor for their age class; exhibiting very good to excellent health as evidenced by normal to exceptional shoot growth during current season, good bud development and leaf color, lack of leaf, twig or branch dieback throughout the crown, and the absence of decay, bleeding, or cankers. Common leaf and/or twig pests may be noted at very minor levels.

B) Above average – Good to very good trees that exhibit minor necrotic or physiological symptoms of stress and/or disease; shoot growth is less than reasonably expected, leaf color is less than optimal in some areas, the crown may be thinning, minor levels of leaf, twig, and branch dieback may be present, and minor areas of decay, bleeding, or cankers may be manifesting. Minor amounts of epicormic growth may be present. Minor amounts of fire damage or mechanical damage may be present. Still healthy, but with moderately diminished vigor and vitality. No significant decline noted.

C) Average – Average, moderately good trees whose growth habit and physiological or fire-induced symptoms indicate an equal chance to either decline or continue with good health into the near future. Most of these trees exhibit moderate to significant small deadwood in outer crown areas, decreased shoot growth and diminished leaf color and mass. Some stem and branch dieback is usually present and epicormic growth may be moderate to extensive. Cavities, pockets of decay, relatively significant fire damage, bark exfoliation, or cracks may be present. Moderate to significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it is expected to negatively impact the lifespan of the tree. Tree may be in early decline.

D) Below Average/Poor - trees whose growth habit and physiological or fire-induced symptoms indicate significant, irreversible decline. Most of these trees exhibit significant dieback of wood in the crown, possibly accompanied by significant epicormic sprouting. Shoot growth and leaf color and mass is either significantly diminished or nonexistent throughout the crown. Cavities, pockets of decay, significant fire damage, bark exfoliation, and/or cracks may be present. Significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it has negatively impacted the lifespan of the tree. Tree appears to be in irreversible decline.

F) Dead or in spiral of decline – this tree exhibits very little to no signs of life.

Structure

A) Outstanding – Trees with outstanding structure for their species exhibit trunk and branch arrangement and orientation that result in a sturdy form or architecture that resists failure under normal circumstances. The spacing, orientation, and size of the branches relative to the trunk are quintessential for the species and free from defects. No outward sign of decay or pathological disease

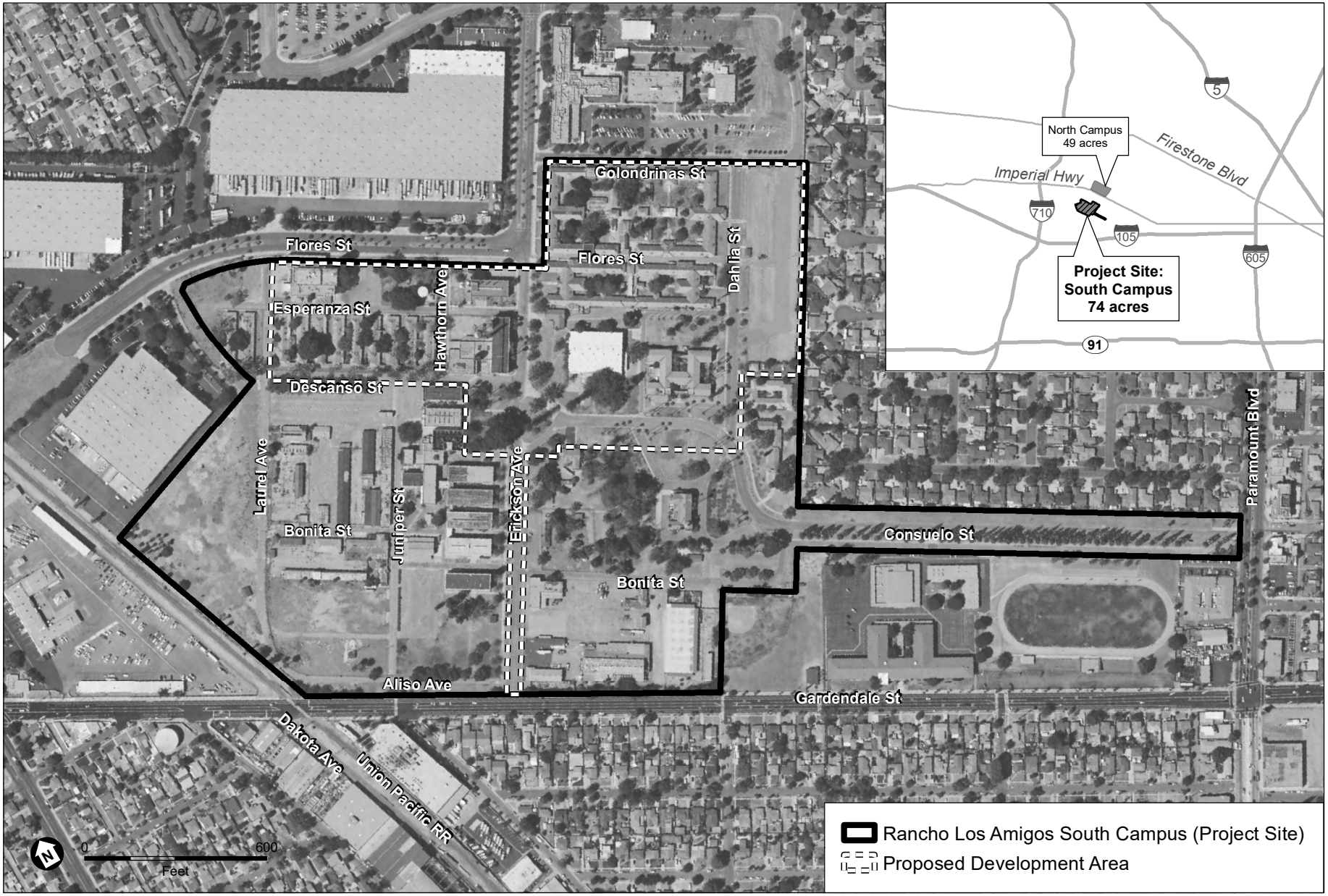
is present. Some trees exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, which would preclude them from achieving an “A” grade.

B) Above average - Trees with good to very good structure for their species. They exhibit trunk and branch arrangement and orientation that result in a relatively sturdy form or architecture that resists failure under normal circumstances, but may have some mechanical damage, over-pruning, or other minor structural defects. The spacing, orientation, and size of the branches relative to the trunk are still in the normal range for the species, but they exhibit a minor degree of defects. Minor, sub-critical levels of decay or pathological disease may be present, but the degree of damage is not yet structurally significant. Trees that exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, would generally fall in to this category. A small percentage of the canopy may be shaded or crowded, but not in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree.

C) Average - Trees with moderately good structure for their species, but with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a less than sturdy form or architecture, which reduces their resistance to failure under normal circumstances. Moderate levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of some of the branches relative to the trunk are not in the normal range for the species. Moderate to significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A moderate to significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be moderately elevated.

D) Well Below Average/Poor - Trees poor structure for their species and with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a significantly less than sturdy form or architecture, significantly reducing their resistance to failure under normal circumstances. Significant levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of many of the branches relative to the trunk are not in the normal range for the species. Significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be advanced.

F) Severely Compromised – trees with very poor structure and numerous or severe defects due to growing conditions, historical or recent pruning, mechanical damage, history of limb or trunk failures, advanced and irreparable decay, disease, or severe fire damage. Trees with this rating are in severe, irreparable decline, or are barely alive. Risk of full or partial failures in the near future may be severe.



SOURCE: ESRI 2017; Los Angeles County Department of Public Works 2017

Rancho Los Amigos South Campus Project
Draft Environmental Impact Report

Exhibit 1
South Campus Project Area - Tree Inventory Boundary

ESA

Path: U:\GIS\GIS\Projects\17xxxxD170230_Rancho_Los_Amigos\03_MXDs_Projects\PDEx1_SouthCampus_Tree_Inventory_Boundary.mxd jln 12/11/2017

TABLE 2 - RANCHO LOS AMIGOS SOUTH CAMPUS TREE INVENTORY

Notes:

1. DBH = diameter at breast height (4 ½ feet from grade)
2. Suitability for Preservation – H = high, M = Moderate, and L = Low. This designation takes in to consideration the species, the suitability for potential relocation, the health and structure grades, and the potential for pruning or irrigation to enhance the tree.
3. Tree Height – estimated heights in feet (Brown Trunk heights for palms). When possible, a laser measuring device was used.
4. Canopy Spread – dripline measurements in four compass directions. When possible, a laser measuring device was used.
5. Wound wood development – P = Poor, A = Average, and E = Excellent
6. Foliage Density – S = sparse, A = Average, D = Dense
7. Dieback – N = None, Mi = Minor, Mo = Moderate, Ex = Extreme
8. Vigor – E = Excellent, A = Average, F = Fair, and P = Poor

List of comment abbreviations:

DB – dieback
HOB – history of breakage
MBA – Multiple branch attachments
MPE – Multiple pruning events
RLA – Rancho los Amigos

Additional arboricultural and dendrological terms are defined at the end of this table.

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
42*	sapote	*Casimiroa edulis*	27	L	35	20	20	20	20	65		A	S	7'	Y					Y	Mo	N	N	F	C	C	C	Trees 1-41 are located in the "Sports Center" area of RLA; fire damage from building, extensive epicormic growth, breaks, mpe
43	carob	*Ceratonia siliqua*	20	L	28	15	20	30	15	100	S	A	D	8'	Y					Y	Mi	N	N	A	B	B	B	topped, exposed roots, mpe, low branches
44	sapote	*Casimiroa edulis*	14	L	17	15	15	10	10	75		P	A	7'	Y					Y	M	N	N	F	C+	C	C	metal poles leaning on trunk, drought stress, mpe, topped
45	juniper	*Juniperus sp.*	8	M	20	6	10	15	6	100	S	A	A							Y	Mo	Y	N	F	B	B	B	topped, one trunk cut, interior deadwood
46	juniper	*Juniperus sp.*	8.5	M	20	10	4	10	10	100	W	A	A							Y	Mo	Y	N	F	B	B	B	topped, one trunk cut, interior deadwood
47	American sweetgum	*Liquidambar styraciflua*	20.5	M	40	18	21	25	13	40	SE	P	S		Y			Y		Y	Ex	N	N	F	C+	B-	C+	fire damage from building, overhangs building
48	Mexican fan palm	*Washingtonia robusta*	BT 18'	M	28	6	6	6	6	100			A							Y	N	N	N	A	A	A-	A-	under sycamore, dead fronds
49	American sweetgum	*Liquidambar styraciflua*	15	R																					F	F	F	standing dead
50	American sweetgum	*Liquidambar styraciflua*	17	L	35	12	6	13	7	25		P	S	9'	Y	T				Y	Ex	N	N	P	C	C	C	large cavity on east, basal sprouts, dead branches

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
51	American sweetgum	*Liquidambar styraciflua*	18	R																					F	F	F	dead, fallen onto patio structure
52	American sweetgum	*Liquidambar styraciflua*	14	R																					F	F	F	standing dead
53	southern magnolia	*Magnolia grandiflora*	11.5	L	35	18	15	10	12	40		P	S		Y			Y		Y	Ex	N	N	P	C	C	C	grass burned around, dead branches, mpe
54	southern magnolia	*Magnolia grandiflora*	19	L	30	18	21	18	3	35		P	S	10'	Y					Y	Ex	N	N	P	C	D	C-	many large failures, mpe, burned
55	Brazilian pepper	*Schinus terebinthifolius*	25	L	30	12	21	21	18	100	S	A	D	7'	Y					Y	Mo	N	N	A	A	B-	B	interior dieback, low branching, crossed branches, fire damage on east
56	Canary Island pine	*Pinus canariensis*	25	L	60	16	4	15	16	30		P	S		Y					Y	Ex	N	N	P	C-	C	C-	severe fire damage on east
57	crape myrtle	*Lagerstroemia indica*	5.5, 10.5, 10.5	M	20	15	15	15	15	80		A	A	3'	Y					Y	Mi	N	N	A	B	B	B	scorched foliage on east
58	shamel ash	*Fraxinus uhdei*	35.5	L	55	18	12	15	17	50		P	S	12'	Y					Y	Ex	N	N	F	C	C	C	dead branches, history of breakage
59	shamel ash	*Fraxinus uhdei*	40.5	L	55	20	25	20	22	65		A	S	12'	Y					Y	Ex	N	N	F	B-	C+	C+	mpe, hob, included bark

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
60	shamel ash	*Fraxinus uhdei*	42	L	40	24	24	21	32	55		A	S	12'	Y					Y	Ex	N	N	F	C	C-	C	dead scaffolds, overextended
61	Canary Island pine	*Pinus canariensis*	25	L	50	21	21	15	24	85	N	A	A	30'	N					Y	Mo	N	N	A	B	C-	C	hangers, hob
62	Brazilian pepper	*Schinus terebinthifolius*	26.5	L	20	21	19	13	21	50	N	A	S	7'	Y					Y	Mo	N	N	F	C	C	C	mpe, raised, top dieback
63	Brazilian pepper	*Schinus terebinthifolius*	21	L	18	6	10	15	15	55	S	A	S	7'	Y					Y	Mo	N	N	F	C	C	C	hob, mpe, raised
64	rusty-leaf fig	*Ficus rubiginosa*	30.5	L	40	30	30	30	30	85		A	A		Y			Y	Y		Mi	N	N	A	B+	B	B+	trunk damage, interior dieback
65	rusty-leaf fig	*Ficus rubiginosa*	31 at 2.5ft	L	30	30	30	30	30	90		A	A	5'	Y			Y	Y		Mi	N	N	A	B+	B	B+	trunk damage, interior dieback
66	rusty-leaf fig	*Ficus rubiginosa*	25	M	30	25	25	25	25	90		A	A	6'	Y			Y	N		Mi	N	N	A	B	B	B	mpe, dead branches
67	rusty-leaf fig	*Ficus rubiginosa*	27	L	35	24	24	21	15	80		A	A	6'	Y			N	Y		Mo	N	N	A	B-	B	B	interior dieback, hob, mpe, raised
68	rusty-leaf fig	*Ficus rubiginosa*	27.5	M	30	15	22	27	30	85		A	A	6'	Y				N		Mi	N	N	A	B	B	B	interior dieback, hob, mpe, raised

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
69	jacaranda	*Jacaranda mimosifolia*	20.5	M	40	18	18	30	21	75	SE	A	S	8'	Y						Mi	N	N	A	B	B-	B	mba, mpe, hob
70	Canary Island pine	*Pinus canariensis*	31.5	M	65	15	25	25	30	75		A	A		Y						Mi	N	N	A	B	B	B	hob, overhangs building
71	jacaranda	*Jacaranda mimosifolia*	28	L	45	30	30	30	30	65	SE	A	A		Y						Mo	N	N	A	B	C	C+	adjacent to building, hob, mba, mpe
72	southern magnolia	*Magnolia grandiflora*	25	L	35	15	15	15	15	45		P	S		Y						Ex	N	N	P	C	C	C	raised, mpe, top dieback
73	southern magnolia	*Magnolia grandiflora*	34	L	45	20	20	20	20	60		A	S		Y			Y			Mo	N	N	F	B-	B	B-	top dieback, mpe
74	queen palm	*Syagrus romanzoffiana*	BT 35'	M	38	10	10	10	10	80		A	A								Mi	N	N	A	B	A	B+	adjacent palm topped
75	Mexican fan palm	*Washingtonia robusta*	BT 15'	M	25	6	6	6	6	100		A	A								N	N	N	A	A	A	A	next to building
76	jacaranda	*Jacaranda mimosifolia*	10.5	M	25	0	18	21	15	70	SE	A	A	6'	Y						Mi	Y	N	A	B	B-	B	mba, mpe, hob
77	Aleppo pine	*Pinus halepensis*	24.5	L	30	21	6	15	30	100	NW	A	A	10'	Y						Mi	Y	N	A	A-	B-	B	codom with included bark, topped, mpe, NE canopy on ground

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
78	American sweetgum	*Liquidambar styraciflua*	11.5	H	40	10	13	15	10	85		A	A		Y						Mi	N	N	A	A-	B	B+	mpe, doing well
79	deodar cedar	*Cedrus deodara*	25	M	45	24	19	27	21	55		A	S		N						Mo	N	N	F	B-	B	B-	sparse foliage, mpe
80	deodar cedar	*Cedrus deodara*	34.5	L	50	18	24	30	21	70		A	A	20'	Y						Mo	N	N	F	B	C	C+	hob, large scaffold failures on north
81	deodar cedar	*Cedrus deodara*	28.5	L	40	30	25	30	25	75		A	A		Y						Mo	N	N	F	B-	C	C+	hob, crack in scaffold, large cut scaffold
82	jacaranda	*Jacaranda mimosifolia*	21.5	L	30	30	30	15	15	70	E	A	A	6'	Y						Mi	N	N	A	B	B	B	mba, mpe
83	jacaranda	*Jacaranda mimosifolia*	22	H	35	21	30	18	16	80	E	A	A	7'	Y						Mi	N	N	A	B+	B	B	mba, mpe
84	Mexican fan palm	*Washingtonia robusta*	BT 35'	H	40	6	6	6	6	100		A	A								N	N	N	A	A	A	A	
85	Mexican fan palm	*Washingtonia robusta*	BT 15'	H	20	7	7	7	7	100		A	A								N	N	N	A	A	A	A	dead fronds hang low
86	Mexican fan palm	*Washingtonia robusta*	BT 15, 18'	H	20, 23	8	10	8	10	100		A	A	Y base							N	N	N	A	A	A-	A	dead fronds hang low

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
87	bunya bunya	*Araucaria bidwillii*	28.5	H	80	18	18	18	18	80		A	A	N	Y						Mi	N	N	A	B	B	B	raised, epicormic growth up trunk
88	bunya bunya	*Araucaria bidwillii*	34.5	L	80	18	18	18	18	80		A	A	N	Y						Mi	N	N	A	B-	B	B-	hob, epicormic growth, sap up north side of trunk
89	Canary Island date palm	*Phoenix canariensis*	BT 30'	M	40	13	13	13	13	100		A	A	N	N						N	N	N	A	A	A-	A-	weedwacker damage at base, slight hourglass
90	Canary Island date palm	*Phoenix canariensis*	BT 30'	M	40	13	13	13	13	100		A	A	N	N						N	N	N	A	B+	A	B+	slight hourglass, some dead fronds
91	Mexican fan palm	*Washingtonia robusta*	BT 70'	M	80					100		A	A	N	N						N	N	N	A	A	A	A	weedwacker damage
92	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	
93	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	
94	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	
95	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
96	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	
97	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	
98	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	80					100		A	A	N	N						N	N	N	A	A	A	A	
99	avocado	*Persea americana*	28.5	L	45	15	20	28	18	70	S	A	A	8'	Y	B					Mi	N	N	A	B	B-	B	broken branches with decay, root decay
100	camphor	*Cinnamomum camphora*	43.5	L	40	21	24	12	30	70		A	S	10'	Y						Mo	N	N	F	B-	B-	B-	topped, hob, mpe, pruned away from building
101	Canary Island date palm	*Phoenix canariensis*	BT 35'	L	42	15	15	15	15	100		A	A	N	N				Y		N	N	N	A	A	A	A	hourglass, mechanical damage at base
102	Mexican fan palm	*Washingtonia robusta*	BT 65'	H	70	0	6	12	6	100		A	A	N	N				N		N	N	N	A	A	B+	B+	
103	flowering ash	*Fraxinus ornus*	15	R	15	12	7	10	15	5		P	S	5'	Y	T				Y	Ex	N	Y	P	D	D	D	column of decay, almost dead, basal sprouts
104	flowering ash	*Fraxinus ornus*	11	L	15	8	6	7	8	60		P	S	5'	Y	T				Y	Mo	N	Y	F	C	C	C	column of decay, basal sprouts

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
105	flowering ash	*Fraxinus ornus*	9	R	15	10	7	5	10	35		P	S	5'	Y	T				Y	Ex	N	Y	P	D	D	D	column of decay, basal sprouts
106	camphor	*Cinnamomum camphora*	9	H	20	15	9	14	11	50		A	S	6'	Y						Mo	N	N	F	B-	B+	B	not tagged, overhangs property line 12ft
OS 107	camphor	*Cinnamomum camphora*	11.5	L	20	8	2	9	9	40	W	A	S	7'	Y						Mi	Y	N	A	B+	C	C	large cuts, topped, excessively pruned, no tag
108	Chinese flame	*Koelreuteria bipinnata*	8, 12	L	35	16	12	15	11	90		A	A	2.5'	Y						Mi	N	N	A	A	B-	B	trunk embedded in fence, mpe
109	Indian laurel fig	*Ficus microcarpa*	14.5	M	40	23	24	17	17	100		E	A	6'	Y						N	N	N	A	A	B+	B+	on property line, mpe, stub cuts, powerlines through canopy
OS 110	macadamia nut	*Macadamia integrifolia*	13	H	25	15	15	18	15	90		A	A	5'	Y						Mi	N	N	A	A	A	A	overhangs property line 14ft, powerlines through canopy
OS 111	black locust	*Robinia pseudoacacia*	31	H	30	18	15	12	18	75		A	A	8'	Y						Mo	N	N	A	B	B	B	topped, mpe, interior dieback, overhangs property line 15ft
112	black locust	*Robinia pseudoacacia*	14.5	L	23	14	15	14	12	65		A	A	10'	Y						Mi	N	N	A	B	B-	B-	topped, under powerlines, basal sprouts
113	paperbark	*Melaleuca quinquenervia*	19.5	L	40	26	22	10	12	80	N	A	A	8'	Y						Mi	N	N	A	A-	B+	B+	leans away from building, mpe

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
114	paperbark	*Melaleuca quinquenervia*	8	L	35	13	10	6	12	70	N	A	A		Y						Mi	N	N	A	B+	B+	B+	basal sprouts, next to building
115	jacaranda	*Jacaranda mimosifolia*	15	M	25	16	18	24	7	80		A	A		Y						Mi	N	N	A	B+	B-	B	asphalt cutout, mpe, mba
116	paperbark	*Melaleuca quinquenervia*	8	L	25	16	2	2	15	75	NW	A	A	7'	Y						Mi	N	N	A	B+	B+	B+	leans away from building
117	paperbark	*Melaleuca quinquenervia*	10.5	L	40	15	8	11	18	80	W	A	A	8'	Y						Mi	N	N	A	B	B	B	leans away from building, hob
118	paperbark	*Melaleuca quinquenervia*	5, 8	L	30	12	6	11	17	70	W	A	A	5'	Y						Mi	N	N	A	B	B	B	leans away from building, hob
119	paperbark	*Melaleuca quinquenervia*	9	L	25	6	8	12	14	60	W	A	S	6'	Y						Mo	N	N	F	B-	B	B-	top dieback, leans away from building
120	deodar cedar	*Cedrus deodara*	11.5	R	40					0			N/A												F	F	F	standing dead
121	camphor	*Cinnamomum camphora*	73 at base	M	50	40	46	69	57	80		A	A	3'	Y						Mo	N	N	A	B	B-	B-	overpruned, exposed roots, mpe, top dieback, long scaffolds
122	camphor	*Cinnamomum camphora*	58 at 2ft	M	40	24	34	39	48	70		A	A	6'	Y						Mo	N	N	A	B-	B-	B-	overpruned, mpe, top and end dieback

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
123	coast redwood	*Sequoia sempervirens*	20	L	55	11	9	7	11	40		A	S		Y						Mo	N	N	F	C	B-	C+	drought stress, basal sprouts
124	coast redwood	*Sequoia sempervirens*	18.5	L	55	7	7	13	13	45		A	S		Y						Mo	N	N	F	C+	B-	C+	drought stress
125	coast redwood	*Sequoia sempervirens*	37	R	60	15	16	11	10	15		A	S		Y						Ex	N	N	P	D	D	D	lignotubers at base, hob, in decline
126	camphor	*Cinnamomum camphora*	24	L	35	15	35	39	29	60	S	P	S	6'	Y						Mo	N	N	F	C-	C-	C-	unbalanced to south, mpe, top and end dieback
127	roundleaf fountain palm	*Livistona rotundifolia*	BT 20'	H	27	6	6	6	6	100		A	A								N			A	A	A	A	trunk spiked with boot spurs
128	bunya bunya	*Araucaria bidwillii*	37	H	100	13	12	13	16	90		A	A		N						Mi	N	N	A	A-	A	A-	nice tree
129	camphor	*Cinnamomum camphora*	41	M	40	31	32	26	30	50		A	A	9'	Y						Mo	N	N	A	B-	B	B-	mpe, top dieback, overpruned, mostly epicormic
130	southern magnolia	*Magnolia grandiflora*	24.5	L	35	13	16	20	18	35	E	A	S		N						Ex	N	N	P	C-	C	C-	sunburned, drought stress
131	camphor	*Cinnamomum camphora*	47	M	40	33	37	22	24	55		A	S	7'	Y						Mo	N	N	A	B	B	B	mostly epicormic, mpe, long scaffolds, overpruned

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
132	southern magnolia	*Magnolia grandiflora*	12.5	M	20	18	19	16	20	70		A	A	7'	Y						Mi	N	N	A	B	B-	B	mostly epicormic, overpruned, top dieback
133	southern magnolia	*Magnolia grandiflora*	9	L	17	6	11	9	15	40		A	S	6'	Y						Mo	Y	N	F	B	B-	B-	mostly epicormic, overpruned, top dieback
134	southern magnolia	*Magnolia grandiflora*	17.5	L	25	18	20	20	22	60		A	S		Y	T					Mo	N	N	F	C+	B	B-	mostly epicormic, overpruned, top dieback
135	southern magnolia	*Magnolia grandiflora*	9.5	L	25	7	10	5	12	35		A	S		Y			Y			Mo	Y	N	F	C+	B	B-	mostly epicormic, overpruned, top dieback
136	southern magnolia	*Magnolia grandiflora*	14.5	L	30	20	18	17	20	60		A	S	5'	Y				Y		Mo	N	N	A	B	B-	B	rebar through trunk, mostly epicormic, mpe
137	southern magnolia	*Magnolia grandiflora*	16	L	35	16	20	21	15	50		A	S		Y						Ex	N	N	F	C-	C	C-	mostly epicormic, overpruned, top dieback
138	southern magnolia	*Magnolia grandiflora*	18.5	L	30	17	17	11	22	40		A	S		Y						Ex	N	N	F	C	C	C	mostly epicormic, overpruned, top dieback
139	southern magnolia	*Magnolia grandiflora*	11.5	L	25	13	7	15	15	20		A	S		Y						Ex	N	N	P	C-	C	C-	mostly epicormic, overpruned, top dieback
140	southern magnolia	*Magnolia grandiflora*	10	L	25	11		8	13	35		A	S		Y						Mo	N	N	F	B-	B-	B-	mostly epicormic, overpruned, top dieback

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
141	carrotwood	*Cupaniopsis anacardiodes*	10	M	15	15	15	15	15	90		A	A	N	Y						Mi	N	N	A	A-	A	A	behind fence
142	Brazilian pepper	*Schinus terebinthifolius*	14.5	M	15	14	15	13	14	80		A	A	6'	Y						Mi	N	N	A	A	B	B+	mpe, interior DB
143	rusty-leaf fig	*Ficus rubiginosa*	11.5	M	30	17	17	7	11	80		A	A	8'	Y						Mi	N	N	A	A	B	B+	exposed roots, eroded next to building
144	Chinese elm	*Ulmus parvifolia*	15.5 at 2ft	M	30	25	23	24	21	100		A	A	4'	Y						Mi	N	N	A	A	B	B+	topped, growing into fence
145	shamel ash	*Fraxinus uhdei*	9.5	L	45	12	10	6	15	75		A	A	8'	Y						Mo	N	N	A	A	B	B+	interior DB, adjacent to building
146	Brazilian pepper	*Schinus terebinthifolius*	10.5	L	15	14	13	13	16	100		A	A	N	Y				Y		Mi	N	N	A	A	C	C+	growing into pipes, volunteer, mpe
147	Brazilian pepper	*Schinus terebinthifolius*	6.5, 6.5	L	20	15	7	9	11	90	N	A	A	base	Y						Mi	N	N	A	A	C	B-	growing into fence, mpe, topped mba
148	Brazilian pepper	*Schinus terebinthifolius*	8.5, 8.5	L	20	17	20	12	16	90	N	A	A	base	Y						Mi	N	N	A	A	C	B-	growing into fence, mpe, topped mba
149	Mexican fan palm	*Washingtonia robusta*	BT 20'	L	28	9	6	9	8	100	W		A								N			A	A	B	B+	growing into fence at base

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
150	Mexican fan palm	*Washingtonia robusta*	BT 23'	L	30	6	6	6	6	100			A								N			A	A	B	B+	growing into fence at base
151	Mexican fan palm	*Washingtonia robusta*	BT 20'	L	25	6	6	6	6	100			A								N			A	A	B	B+	growing into fence at base
152	Spanish dagger	*Yucca gloriosa*	3, 3, 5, 10	L	20	0	10	12	10	80	S	P	A	Y	Y						Mi	N	N	A	B	B	B	next to building, topped
153	Mexican fan palm	*Washingtonia robusta*	BT 22'	L	30	8	8	8	8	100			A	N	N						Mi	N	N	A	A	A-	A-	dead fronds to ground, base in fence
154	Mexican fan palm	*Washingtonia robusta*	BT 40'	L	48	6	6	6	6	100			A	N	N						Mi	N	N	A	A	A-	A-	dead fronds to ground, base in fence
155	Mexican fan palm	*Washingtonia robusta*	BT 15'	L	25	6	6	6	6	100			A	N	N						Mi	N	N	A	A	A-	A-	dead fronds to ground, base in fence
156	London plane tree	*Platanus* x *acerifolia*	19	L	40	14	15	31	25	40	S	A	S	6'	Y			Y			Ex	N	N	P	C	C	C	slight lean south, mostly epicormic
157	Mexican fan palm	*Washingtonia robusta*	BT 45'	M	55	6	6	6	6	100			A								Mi	N	N	A	A	A	A	dead fronds within 10 feet of ground
158	London plane tree	*Platanus* x *acerifolia*	18	L	50	13	19	18	22	35	S	P	S		Y						Ex	N	N	P	C-	C-	C-	damaged from fallen adjacent tree, hob

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
159	jacaranda	*Jacaranda mimosifolia*	29	M	45	24	30	30	27	80		A	A	8'	Y						Mi	N	N	A	A	B-	B	wood deck around trunk, mpe, mba, hob
160	London plane tree	*Platanus* x *acerifolia*	20.5 at 3ft	R	45					0															F	F	F	standing dead
161	shamel ash	*Fraxinus uhdei*	7.5, 8.5	L	40	16	12	4	10	80	N	A	A	2'	Y						Mo	Y	N	F	B	B-	B-	exposed roots
162	shamel ash	*Fraxinus uhdei*	7, 9	L	40	10	12	10	10	80	E	A	A	2'	Y						Mi	Y	N	A	B+	B	B+	4.5" cut at 3ft
163	Brazilian pepper	*Schinus terebinthifolius*	19.5 at 3.5ft	L	15	24	30	10	21	40	N	P	A	4'	Y						Mo	Y	N	A	B+	C	C+	unbalanced to north, mpe, topped, raised
164	Indian laurel fig	*Ficus microcarpa*	40 at 2.5ft	M	40	36	38	23	43	90		A	A	7'	Y	T					Mi	N	N	A	A	B-	B	cavity at crotch, scaffolds fused, mpe
165	Brazilian pepper	*Schinus terebinthifolius*	13.5, 16	L	15	18	13	20	18	60	N	P	S	base	Y						Mo	Y	N	F	B-	B-	B-	mpe, raised, interior DB
166	Brazilian pepper	*Schinus terebinthifolius*	17	L	15	13	15	18	8	65	E	P	S	base	Y	T					Mo	Y	N	F	B	C	C+	5.5" dead trunk, topped, recent pruning
167	carob	*Ceratonia siliqua*	16.5	L	20	9	0	12	20	35	SW	P	S		Y						Mi	Y	N	A	B+	C	C+	overpruned, large cuts

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
168	Hollywood juniper	*Juniperus chinensis* 'Torulosa'	8.5	L	30	6	15	6	5	30	E	A	S		N						Mi	Y	N	F	B-	B-	B-	leans over building, 5ft from building
169	Hollywood juniper	*Juniperus chinensis* 'Torulosa'	12.5	M	30	10	13	13	10	40		A	S		N	T					Mi	Y	N	F	B	B	B	leans over building, 5ft from building
170	Indian laurel fig	*Ficus microcarpa*	24 at 3ft	H	45	31	32	32	33	100		A	A	5'	Y						Mi	N	N	E	A	A	A	overhangs building
171	camphor	*Cinnamomum camphora*	26.5	R																					F	F	F	standing dead, topped at 10ft
172	shamel ash	*Fraxinus uhdei*	49.5	R	50	18	22	18	8	25		P	S	Y	Y						Ex	N	N	P	D	D	D	hob, top DB, large failure scaffold
173	Chinese elm	*Ulmus parvifolia*	19.5	L	35	24	8	34	32	90	W	A	A	3'	Y						Mi	Y	Y	A	A	C	B-	raised, interior DB, unbalanced to west, adjacent to fence
174	rusty-leaf fig	*Ficus rubiginosa*	32	M	45	22	15	20	21	80		A	A	6'	Y						Mi	N	N	A	B	B	B	mpe, interior DB
175	rusty-leaf fig	*Ficus rubiginosa*	29	M	45	21	21	21	21	80		A	A	6'	Y						Mi	N	N	A	B	B	B	mpe, interior DB, hob
176	rusty-leaf fig	*Ficus rubiginosa*	30	L	45	24	25	27	16	70		A	A	8'	Y						Mo	N	N	A	B-	B	B-	mpe, interior DB, large cuts

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
177	Hollywood juniper	*Juniperus chinensis* 'Torulosa'	4.5, 9.5, 15	M	20	12	12	18	12	90		A	A		N						Mi	N	N	A	B	B	B	mpe, interior DB
178	Mexican fan palm	*Washingtonia robusta*	BT 30'	H	38	6	6	6	6	100			A								N	N	N	A	A	A-	A-	dead fronds, next to building
179	Mexican fan palm	*Washingtonia robusta*	BT 27'	H	35	6	6	6	6	100			A								N	N	N	A	A	A-	A-	dead fronds, next to building
180	lemon-scented gum	*Corymbia citriodora*	12.5	L	25	7	16	27	0	40	E	A	A	10'	N						MI	N	N	F	B	C+	B-	growing out of asphalt, unbalanced to east, mpe, broken top, overextends to south
181	lemon-scented gum	*Corymbia citriodora*	22	M	50	28	28	22	20	90	A	A	12'	Y	N						Mi	N	N	A	B	B-	B	bows north, hob, mpe
182	blackwood acacia	*Acacia melanoxylon*	22	R																					F	F	F	standing dead
183	jacaranda	*Jacaranda mimosifolia*	19.5	M	45	28	21	20	25	90	SW	A	A	10'	Y						Mi	N	N	A	B+	B	B	hob, mpe, basal sprouts, interior DB
184	blackwood acacia	*Acacia melanoxylon*	25	L	45	13	17	17	15	35		P	S	18'	Y	B					Ex	N	N	F	C	C-	C	large break with decay, hob, mpe
185	jacaranda	*Jacaranda mimosifolia*	17.5	M	45	18	28	25	26	80		A	A	10'	Y						Mo	N	N	A	A	B-	B	mpe, mba, hob, interior DB

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
186	blackwood acacia	*Acacia melanoxylon*	14	M	50	15	18	15	16	90		A	A		N						Mi	N	N	A	A	A	A	
187	Spanish dagger	*Yucca gloriosa*	BT 18'	M	20	10	10	12	10	100		A	A	Y	N						Mi	N	N	A	A	B	B+	adjacent to building, 4, 12, 7.5, 4, 2, 5, 6, 17, 5, 5.5 (multiple trunks)
188	Spanish dagger	*Yucca gloriosa*	BT 18'	M	20	5	10	15	10	100		A	A	Y	N						Mi	N	N	A	A	B	B+	adjacent to building, 9, 9, 8, 6.5, 13, 15 (multiple trunks)
189	coast live oak	*Quercus agrifolia*	25.5	M	45	33	32	32	32	85	S	A	A	14'	Y						Mo	N	N	A	B-	B	B	old tag #4, canopy over building, interior DB, scaffolds on roof
190	Afghan pine	*Pinus eldarica*	25.5	M	50	18	25	24	21	60		A	S	N	N						Mo	N	N	F	B-	B	B-	hob, interior DB, lower canopy DB, topped, drought stress
191	coast live oak	*Quercus agrifolia*	30.5	M	45	22	28	36	31	75		A	A	8'	Y						Mo	N	N	A	B-	B	B-	old tag #3, interior DB, canopy over building, on roof, drought stress
192	lemon bottlebrush	*Callistemon citrinus*	8.5, 9, 9.5	L	25	17	10	12	19	40	N/W	A	S	base	N						Ex	Y	N	F	C	B-	C+	drought stress, leans away from building
193	lemon bottlebrush	*Callistemon citrinus*	6, 8.5	L	25	6	17	17	22	40		A	S	base	N						Mo	Y	N	F	B-	B-	B-	canopy on roof, drought stress
194	lemon bottlebrush	*Callistemon citrinus*	5.5, 11	L	25	8	10	12	14	40		A	S	base	N						Mo	Y	N	F	B-	B-	B-	canopy on roof, drought stress

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
195	lemon bottlebrush	*Callistemon citrinus*	4, 5, 6	L	20	2	10	13	13	50	S	A	S	3'	N						Mo	Y	N	F	B-	B-	B-	canopy on roof, drought stress
196	yew pine	*Podocarpus macrophyllus*	16	L	25	18	15	13	18	100		A	A	4'	Y						Mi	N	N	A	B+	B	B	mpe, adjacent to building
197	yew pine	*Podocarpus macrophyllus*	10.5	L	20	14	9	8	12	70		A	A	10'	Y						Mi	N	N	A	B	B	B	mpe, adjacent to building, topped
198	Chinese elm	*Ulmus parvifolia*	3, 4, 6, 7, 8	H	40	16	22	25	30	90		A	A	2'	N						Mi	N	N	A	A	A	A	adjacent and overhangs roof, mpe
199	Mexican fan palm	*Washingtonia robusta*	BT 28'	L	35	7	7	7	7	100											N	N	N	A	A-	A	A-	handrail embedded at base
200	coast live oak	*Quercus agrifolia*	23	M	25	30	25	18	21	80	NE	A	A	N	Y			Y			Mi	N	N	A	B-	B-	B-	interior DB, sycamore borer, low branching, on roof
201	Indian laurel fig	*Ficus microcarpa*	47	H	50	43	30	36	43	100		A	A	9'	N						Mi	N	N	E	A	A	A	on roof, interior DB
202	coast live oak	*Quercus agrifolia*	25	M	40	37	30	15	32	60		A	A	10'	Y				on trunk		Mo	Y	N	F	B-	B-	B-	shaded by #201, mpe, interior DB, old tag #1, dead branches
203	blackwood acacia	*Acacia melanoxylon*	16.5	M	40	20	20	21	24	90		A	A		Y						Mi	N	N	A	A-	A-	A-	interior DB, good structure

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
204	blackwood acacia	*Acacia melanoxylon*	31	R	40	28	7	16	18	70	NW	P	S		Y	T					Mo	N	N	F	B	D	D	column of decay on south from old tear, hob, top DB
205	Chinese elm	*Ulmus parvifolia*	12.5	L	30	22	22	24	23	90		A	A	4'	Y	T					Mi	N	N	A	A	C	B-	crack at codom, next to sidewalk
206	Hollywood juniper	*Juniperus chinensis* 'Torulosa'	11.5	L	15	21	0	0	0	20	N	A	A	N	N						Mi	Y	N	F	B-	C	C+	mpe, heavy lean north away from building
207	Hollywood juniper	*Juniperus chinensis* 'Torulosa'	10.5, 12.5	M	25	24	15	10	10	65	E	A	A	3'	N						Mi	Y	N	F	B	B-	B	mpe, over building
208	Chinese elm	*Ulmus parvifolia*	8, 9, 11 at 5ft	L	40	24	25	24	25	80	S	P	A	4'	Y	T					Mi	N	N	A	B+	C	C+	8" codom split at base, still growing on ground
209	Japanese maple	*Acer palmatum*	4.5, 6, 6, 6.5, 6.5, 6.5, 7	L	20	19	16	15	18	75		A	A	2'	Y		T				Mi	N	N	A	B-	B-	B-	bark disassociation, interior DB, mpe
210	lemon-scented gum	*Corymbia citriodora*	21	M	50	10	36	40	12	80	SE	A	A		N						Mi	N	N	A	A	B-	B+	small dead branches, drought stress
211	lemon-scented gum	*Corymbia citriodora*	20.5	M	50	18	28	32	14	75	SE	A	A	20'	N						Mo	N	N	F	B-	B	B-	small dead branches, drought stress, end tip DB
212	lemon-scented gum	*Corymbia citriodora*	12.5	L	35	14	12	16	12	50	SE	P	S		N						Mo	N	N	F	C	C	C	central leader dead, slight lean, top DB

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
213	lemon-scented gum	*Corymbia citriodora*	22	M	55	20	28	21	18	70		P	S		N						Mo	N	N	F	B-	B-	B-	dead scaffold, small dead branches
214	lemon-scented gum	*Corymbia citriodora*	18.5	M	40	9	27	20	19	90	E	A	A		N						Mi	N	N	A	A	B-	B+	unbalanced to south, dead branches
215	lemon-scented gum	*Corymbia citriodora*	25.5	M	65	19	38	10	24	60	S	A	A	N	N						Mo	N	N	F	B-	B-	B-	south canopy dead, dead branches
216	lemon-scented gum	*Corymbia citriodora*	28	M	65	15	28	21	21	80		A	A	14'	N						Mo	N	N	A	B-	B-	B-	dead branches
217	lemon-scented gum	*Corymbia citriodora*	25.5	M	50	36	39	33	24	70		A	A		N						Mo	N	N	A	B-	B-	B-	dead branches
218	jacaranda	*Jacaranda mimosifolia*	21	M	35	29	25	23	23	85		A	A	N	Y	Y					Mi	N	N	A	A-	B	B+	bows east, mba, mpe
219	jacaranda	*Jacaranda mimosifolia*	17.5	M	35	21	9	21	12	80	S	A	A	5'	Y						Mi	Y	N	A	B+	B	B+	hob, mba, mpe
220	jacaranda	*Jacaranda mimosifolia*	15.5	M	35	27	22	28	10	50	NE	A	A	12'	Y						Mi	Y	N	A	B	B	B	unbalanced to east, mba, mpe, hob
221	jacaranda	*Jacaranda mimosifolia*	17.5	M	35	24	21	17	10	80		A	A	5'	Y						Mi	Y	N	A	B	B	B	bows east, mpe, mba

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
222	jacaranda	*Jacaranda mimosifolia*	18.5	M	35	29	29	28	22	80		A	A	7'	Y						Mi	Y	N	A	B+	B	B+	mpe, mba
223	jacaranda	*Jacaranda mimosifolia*	12.5	M	25	11	9	24	4	60	SE	A	A	9'	Y						Mi	Y	N	A	B+	B	B	mpe, mba
224	jacaranda	*Jacaranda mimosifolia*	18.5	M	35	28	22	22	13	70		A	A	7'	Y						Mi	Y	N	F	B-	B	B-	mpe, mba, moderate DB
225	jacaranda	*Jacaranda mimosifolia*	18.5	M	35	24	28	25	15	75		A	A		Y						Mi	Y	N	F	B-	B	B-	excavation for utility to north, mpe, mba
226	jacaranda	*Jacaranda mimosifolia*	3.5, 4, 4, 4.5, 5.5, 7	L	25	19	17	23	6	80		A	A	base	Y	T					Mi	Y	N	A	A	C	C+	stump sprout, cut at base, mba, mpe
227	jacaranda	*Jacaranda mimosifolia*	19.5	M	40	15	26	32	14	85	S	A	A	10'	Y						Mi	Y	N	A	A-	B	B+	mpe, mba
228	jacaranda	*Jacaranda mimosifolia*	18	M	45	20	14	33	24	70		A	A	10'	Y						Mi	Y	N	A	B	B	B	mpe, mba
229	jacaranda	*Jacaranda mimosifolia*	18.5	M	45	16	15	30	12	80	S	A	A	8'	Y						Mi	Y	N	A	B+	B	B+	mpe, mba
230	jacaranda	*Jacaranda mimosifolia*	12.5	M	40	17	12	23	15	70		A	A	15'	Y						Mi	Y	N	F	B-	B	B-	mpe, mba

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231	jacaranda	*Jacaranda mimosifolia*	23	M	40	24	14	32	28	85	E	A	A	6'	Y						Mi	Y	N	A	A-	B	B+	hob, mba, mpe
232	jacaranda	*Jacaranda mimosifolia*	17.5	M	40	17	12	28	18	85	SE	A	A		Y						Mi	Y	N	A	B+	B	B	mba, mpe, hob
233	Chinese elm	*Ulmus parvifolia*	18.5	L	35	18	22	31	19	90		A	A	9'	Y						Mi	N	N	A	B	B	B	hob, growing through fence, next to wall, interior DB, overextended branching to southwest
234	glossy leaf privet	*Ligustrum lucidum*	10.5, 12	R	15	9	8	3	8	15		P	S		Y	T					Ex	N	Y	P	D	D	D	dead, only stump sprouts
235	London plane tree	*Platanus* x *acerifolia*	19	I	40	19	23	33	14	40		P	S	7'	Y						Ex	N	N	F	C	C	C	extensive epicormic growth, hob, hangers
236	Canary Island date palm	*Phoenix canariensis*	BT 40'	H	52	12	12	12	12	100		A	A								N	N	N	A	A	A	A	
237	Mexican fan palm	*Washingtonia robusta*	BT 40'	H	75	6	6	6	6	100	S	A	A								N	N	N	A	A	A	A	
238	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	82	6	6	6	6	100	S	A	A	N							N	N	N	A	A	A	A	

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239	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	82	6	6	6	6	100	S	A	A	N							N	N	N	A	A	A	A	
240	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	82	6	6	6	6	100	S	A	A	N							N	N	N	A	A	A	A	
241	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	82	6	6	6	6	100	S	A	A	N							N	N	N	A	A	A	A	
242	cherimoya	*Annona cherimola*	13	M	20	14	16	13	12	100	E	A	A	5'	Y	T					Mi	N	Y	A	B	B-	B-	mpe, raised, dense interior, ants all over, column of decay
243	lemon-scented gum	*Corymbia citriodora*	19.5	M	65	15	25	36	26	70	S	A	A	22'	Y						Mi	N	N	A	B	B-	B	small dead branches
244	coast live oak	*Quercus agrifolia*	31.5	H	35	25	25	29	22	70		E	A	7'	Y						Mi	N	N	A	A	B	B+	overhangs and touches building, interior DB, overextended branches
245	coast live oak	*Quercus agrifolia*	38	H	40	31	31	31	31	80	S	A	A	5'	Y						Mi	N	N	A	A	B+	B+	leans south, overhangs building to east and west, interior DB
246	lemon-scented gum	*Corymbia citriodora*	30	M	70	20	27	52	24	70	S	A	A	9'	Y						Mi	N	N	A	B	B-	B	heavy lean south, small dead branches, overextended branches
247	lemon-scented gum	*Corymbia citriodora*	24	M	70	13	27	43	20	75	S	A	A		Y						Mi	N	N	A	B	B	B	heavy lean south, small dead branches, overextended branches, hob

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248	lemon-scented gum	*Corymbia citriodora*	23.5	M	70	11	21	40	15	70	S	A	A	10'	Y						Mi	N	N	A	B	B	B	heavy lean south, small dead branches, overextended branches
249	Mexican fan palm	*Washingtonia robusta*	BT 18'	M	23	6	6	6	6	100											Mi	N	N	A	A	B	B+	dead fronds
250	Mexican fan palm	*Washingtonia robusta*	BT 10, 10, 13, 50'	M	18, 18, 21, 50	13	11	12	12	100				Y							Mi	N	N	A	A	B	B+	multi at base, dead fronds
251	Mexican fan palm	*Washingtonia robusta*	BT 8, 50'	M	13, 57	6	6	6	6	100				Y							Mi	N	N	A	A	B	B+	one cut trunk
252	Mexican fan palm	*Washingtonia robusta*	BT 18'	H	25	6	6	6	6	100											Mi	N	N	A	A	B	B+	
253	Mexican fan palm	*Washingtonia robusta*	BT 18'	H	25	6	6	6	6	100											Mi	N	N	A	A	B	B+	
254	Mexican fan palm	*Washingtonia robusta*	BT 18'	H	25	6	6	6	6	100											Mi	N	N	A	A	B	B+	
255	Mexican fan palm	*Washingtonia robusta*	BT 15'	H	22	6	6	6	6	100											N	N	N	A	A	A	A	
256	Mexican fan palm	*Washingtonia robusta*	BT 22'	H	28	6	6	6	6	100											N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
257	Fremont cottonwood	*Poplulus fremontii*	13.5	L	25	14	18	17	19	80		P	A	5'	Y		N	Y	N		Mi	N	Y	F	B-	B	B	hob, bleeding trunk, ants
258	Mexican fan palm	*Washingtonia robusta*	BT 27'	H	35	7	7	7	7	100											N	N	N	A	A	A	A	
259	Chinese flame	*Koelreuteria bipinnata*	6.5, 7, 9, 12.5	H	25	19	17	20	21	100		A	A	base	Y						N	N	N	E	A	A	A	mpe, raised
260	Mexican fan palm	*Washingtonia robusta*	BT 50'	M	55	6	6	6	6	90		A	A							Y	Mi	N	N	A	B	B	B	scortched, recovering, on property line, old bbq under
261	Mexican fan palm	*Washingtonia robusta*	BT 35'	H	42	8	8	8	8	100		A	A								N	N	N	A	A	A	A	
262	elderberry	*Sambucus mexicana*	9, 10.5	L	25	8	8	10	20	40	W	P	S	base	Y				Y		Mo	Y	N	F	C+	C	C	recent pruning, trunks cut
263	bottle tree	*Brachychiton populneus*	27	M	35	17	15	18	14	85		A	A		Y						Mi	N	N	A	B	B	B	drought stress, chlorotic
264	Canary Island pine	*Pinus canariensis*	22.5 at 3ft	M	50	17	19	12	9	65		A	A	N	Y						Mi	N	N	A	B	B	B	interior DB
265	southern magnolia	*Magnolia grandiflora*	11.5	L	22	13	13	13	24	80	N	A	A		Y				Y		Mo	N	N	F	B-	B	B-	rebar and tie embedded in trunk

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
266	southern magnolia	*Magnolia grandiflora*	15.5	M	25	18	21	21	23	80	N	A	A		Y						Mi	N	N	F	B	B	B	drought stress, hob
267	southern magnolia	*Magnolia grandiflora*	3, 6, 6.5, 7, 10	M	30	21	16	18	20	65	N	A	A	4'	Y						Mo	N	N	F	B-	B	B-	drought stress, trunks fused
268	southern magnolia	*Magnolia grandiflora*	6, 9.5, 11	M	25	20	23	19	20	65	N	A	S	base	Y						Mo	N	N	F	B-	B	B-	drought stress
269	southern magnolia	*Magnolia grandiflora*	9.5	M	22	11	10	10	11	70	N	A	S		Y						Mo	N	N	F	B-	B	B-	drought stress
270	southern magnolia	*Magnolia grandiflora*	11	M	25	13	16	11	12	80	N	A	A		Y						Mi	N	N	A	B	B+	B	under powerlines, not touching
271	southern magnolia	*Magnolia grandiflora*	8	M	20	11	10	9	12	40	N	A	S		Y						Ex	N	N	P	C	B	C+	drought stress, hob
272	southern magnolia	*Magnolia grandiflora*	12	M	25	20	19	14	17	60	N	A	A	6'	Y						Mo	N	N	F	B-	B	B	basal sprouts
273	southern magnolia	*Magnolia grandiflora*	10	L	20	19	11	15	21	40	N	A	S	4'	N						Mi	N	N	A	B	B	B	rebar and tie embedded in trunk, overpruned
274	southern magnolia	*Magnolia grandiflora*	16	M	25	13	13	13	20	40	N	A	A	7'	N						Mi	N	N	A	B	B	B	overpruned, lion-tailed

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
275	southern magnolia	*Magnolia grandiflora*	8.5	M	20	11	10	9	13	55	N	A	A		N	T					Mi	N	N	A	B	B	B	overpruned, lion-tailed, bleeding at small basal cavity
276	southern magnolia	*Magnolia grandiflora*	14.5	M	20	22	20	18	17	60	N	N	A	6'	N						Mi	N	N	A	B	B	B	overpruned, lion-tailed
277	Mexican fan palm	*Washingtonia robusta*	BT 45'	H	52	6	6	6	6	100	N										N	N	N	A	A	A	A	
278	lemon-scented gum	*Corymbia citriodora*	13	H	45	12	11	20	26	80	S	A	A	20'	N						Mi	Y	N	A	A	A	A	
279	lemon-scented gum	*Corymbia citriodora*	10.5	H	40	14	17	24	14	85	S	A	A		N						Mi	N	N	A	A	A	A	
280	windmill palm	*Trachycarpus fortunei*	BT 17'	M	22	5	5	5	5	100	S	N	A								Mi	N	N	A	A	A	A	
281	carob	*Ceratonia siliqua*	21	L	20	18	14	25	25	100	N	A	A		Y	T					Mi	N	N	A	B	B-	B	interior DB, ground covered with sprouts, topped, mpe, basal cavity
282	Canary Island date palm	*Phoenix canariensis*	BT 30'	H	38	12	12	12	12	100	N										N	N	N	A	A	A	A	ficus growing in canopy
283	Canary Island date palm	*Phoenix canariensis*	BT 32'	M	40	12	12	12	6	90	N										N	N	N	A	A	A	A	ficus growing in canopy, fronds pruned on west for powerlines

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
284	Canary Island date palm	*Phoenix canariensis*	BT 40'	H	50	12	12	12	12	100	N										N	N	N	A	A	A	A	
285	Mexican fan palm	*Washingtonia robusta*	BT 18'	H	25	7	7	7	7	100	N										N	N	N	A	A	A	A	
286	Mexican fan palm	*Washingtonia robusta*	BT 40'	H	48	7	7	7	7	100	N										N	N	N	A	A	A	A	7ft south of building
287	Mexican fan palm	*Washingtonia robusta*	BT 17'	H	24	7	7	7	7	100	N										N	N	N	A	A	A	A	7ft south of building
288	Mexican fan palm	*Washingtonia robusta*	BT 15, 17, 18	H	21, 23, 25	12	10	12	12	100	N			Y							N	N	N	A	B	A	A-	15ft south of building
289	Mexican fan palm	*Washingtonia robusta*	BT 27'	H	34	7	7	7	7	100	N										N	N	N	A	A	A	A	adjacent to building
290	southern magnolia	*Magnolia grandiflora*	14	L	30	21	15	23	17	50	N	A	S		Y						Mo	N	IVY	F	B	B-	B-	ivy on trunk and canopy
291	Chinese flame	*Koelreuteria bipinnata*	12	R	12	7	9	9	8	25	N	P	S	6'	Y	T/B		Y			Ex	N	Y	P	D	D	D	overgrowing tree well, basal sprouts, topped, mpe
292	Chinese flame	*Koelreuteria bipinnata*	12	R	10	3	6	7	5	15	N	P	S	N	Y						Ex	N	Y	P	D	D	D	basal sprouts, mpe, only canopy

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
293	Chinese flame	*Koelreuteria bipinnata*	10	R	12	11	9	4	4	20	NW	P	S		Y	T					Ex	N	N	P	D	D	D	column of decay, mpe
294	Chinese elm	*Ulmus parvifolia*	7, 7.5, 9	L	10	12	10	16	15	40		P	S	3'	Y						Mo	N	N	A	D	B	C-	growing along wall and fence, mpe, all sprouts
295	southern magnolia	*Magnolia grandiflora*	19	M	35	24	14	18	24	80		A	A	N	N						Mi	N	N	A	B	B	B	bows west, drought stress
296	southern magnolia	*Magnolia grandiflora*	18	M	35	21	21	14	18	70	E	A	A	N	Y						Mi	N	N	A	B	B	B	slight lean east, interior DB, drought stress
297	southern magnolia	*Magnolia grandiflora*	27.5	M	40	23	24	28	21	60		A	S	N	Y						Mo	N	N	A	C+	B	B-	drought stress, hob, hanger
298	southern magnolia	*Magnolia grandiflora*	18	M	35	17	10	23	18	60		A	S	N	Y						Mo	Y	N	F	B-	B	B	drought stress, mpe
299	windmill palm	*Trachycarpus fortunei*	BT 25'	M	30	5	5	5	5	100		A	A								N	Y	IVY	A	A	B	B+	thick brush, not accessible, tagged on fence, ivy
300	black locust	*Robinia pseudoacacia*	2, 3, 4, 6, 6	M	35	21	8	21	20	80		A	A	base	Y						N	Y	N	A	A	B	B+	topped, mpe
301	windmill palm	*Trachycarpus fortunei*	BT 25'	M	30	5	5	5	5	100		A	A								N	Y	IVY	A	A	B	B+	trunk engulfed by ivy, tagged on fence

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
302	London plane tree	*Platanus* x *acerifolia*	17	L	35	20	17	20	21	40		A	S		Y						Mo	N	N	F	C+	B	C+	basal sprouts, recently pruned
303	London plane tree	*Platanus* x *acerifolia*	15	L	35	17	13	15	11	40		A	S		Y						Mo	N	N	F	C+	B	C+	recently pruned, sprouts, mpe
304	carob	*Ceratonia siliqua*	15.5, 16, 22	M	25	26	26	25	28	100		A	A	2'	Y	B					Mi	N	N	A	A	B	B+	basal sprouts pruned, raised, interior DB
305	Mexican fan palm	*Washingtonia robusta*	BT 30'	M	36	6	6	6	6	100		A	A								N	N	N	A	A	B	B	growing in asphalt with uplift
306	Mexican fan palm	*Washingtonia robusta*	BT 17'	L	22	5	5	5	5	75		P	S							Y	Mo	N	N	F	B	C	C+	fire damage on trunk, top canopy ok
307	coast redwood	*Sequoia sempervirens*	22	L	65	14	10	10	12	60		A	S	N	Y						Mo	N	N	F	B-	B	B-	basal sprouts, drought stress, 5ft from structure
308	Brazilian pepper	*Schinus terebinthifolius*	5, 6.5, 7, 19	L	25	18	22	24	27	90		A	A	5'	Y						MI	N	N	A	B+	C	B-	growing between structures, interior DB, engulfed roof
309	coast redwood	*Sequoia sempervirens*	17	L	65	9	9	9	9	60		A	S	N	Y						Mo	N	N	F	B-	B	B-	4ft from structure, basal sprouts, drought stress
310	London plane tree	*Platanus* x *acerifolia*	22	L	30	16	20	22	16	65		A	S	N	Y	T					Mo	N	N	F	B-	B-	B-	recent pruning on trunk

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
311	queen palm	*Syagrus romanzoffiana*	BT 20'	M	30	11	11	11	11	100		N	A	N	N						N	N	N	A	A	A	A	
312	carob	*Ceratonia siliqua*	16, 25.5	M	30	24	13	30	27	90		A	A	4'	Y	T					Mi	Y	N	A	A	B	B+	sprouts pruned, overextended branches, trunk lean south
313	carob	*Ceratonia siliqua*	20, 21.5, 29	R	35	22	23	30	28	75	S,W	A	A	base	Y	T					Mo	N	N	A	B-	D	D	old trunk tear with decay, trunks split with crack, remove
314	carob	*Ceratonia siliqua*	18, 24	L	40	28	34	25	27	75		A	A	3'	Y	T					Mo	N	N	A	B-	C+	B-	old pruning cuts with decay, hob
315	carob	*Ceratonia siliqua*	25	L	35	18	32	17	10	50	SE	P	S	N	Y	T					Mo	N	N	F	B-	C	C+	large failure of west trunk with decay, dead branches
316	carob	*Ceratonia siliqua*	18.5	L	25	20	18	23	15	70	S	P	S	N	Y	T					Mo	N	N	F	B	C	C+	decay on cavity on east, top DB, mpe
317	carob	*Ceratonia siliqua*	10, 12.5, 16	L	25	20	18	21	14	50	SE	P	S	2'	Y	T					Mo	N	N	F	C+	C	C	top DB, column of decay on one trunk, mpe
318	carob	*Ceratonia siliqua*	24, 25.5	L	35	30	27	20	27	80		P	A	4'	Y	T					Mi	N	N	A	B	B-	B-	old large tear, hob, mpe
319	southern magnolia	*Magnolia grandiflora*	15	R	30	16	20	19	15	10		A	S		Y						Ex	N	N	P	D	B	D	in decline, drought stress

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
320	southern magnolia	*Magnolia grandiflora*	16	R	25	20	16	16	19	25		A	S	6'	Y						Ex	N	N	P	D	B	D	in decline, drought stress
321	southern magnolia	*Magnolia grandiflora*	12	R	25	18	16	14	16	20		A	S		Y						Ex	N	N	P	D	B	D	in decline, drought stress
322	jacaranda	*Jacaranda mimosifolia*	13	H	20	17	22	20	20	85	S	A	A	6'	Y						Mi	N	N	A	B+	B+	B+	mpe, mba
323	jacaranda	*Jacaranda mimosifolia*	15	M	25	22	27	20	16	75	SE	A	A	7'	Y						Mo	N	N	F	B-	B	B-	basal sprouts, extensive epicormic growth, drought stress
324	coast redwood	*Sequoia sempervirens*	18	L	45	16	15	10	9	65		A	S	N	Y						Mo	N	N	F	B-	B	B-	basal sprouts, growing through asphalt
325	Canary Island pine	*Pinus canariensis*	17	M	55	21	21	16	13	65	NE	A	S	35'	N						Mo	N	N	F	B-	B	B-	drought stress, slight lean, dead branches
326	Canary Island pine	*Pinus canariensis*	24.5	M	55	17	16	21	18	90		A	A		N						Mi	N	N	A	B+	B-	B	dead interior branches, hob, drought stress
327	Canary Island pine	*Pinus canariensis*	23	M	55	14	13	19	18	60		A	S		Y						Mo	N	N	F	C+	B	B-	dieback in north canopy, interior dieback, drought stress
328	Canary Island pine	*Pinus canariensis*	20	M	55	16	17	19	18	85		A	A		Y						Mi	N	N	A	B	B	B	drought stress

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
329	Canary Island pine	*Pinus canariensis*	27.5	M	55	23	21	26	24	80		A	A		Y						Mi	N	N	A	B-	B	B-	hanger on east, hob, interior dieback
330	camphor	*Cinnamomum camphora*	39 at 2ft	R	45	31	15	22	22	20		P	S	4'	Y						Ex	N	N	P	D	D	D	in decline, drought stress
331	camphor	*Cinnamomum camphora*	24	R	40	10	13	3	22	15		P	S	7'	Y						Ex	N	N	P	D	D	D	in decline, drought stress
332	camphor	*Cinnamomum camphora*	22.5	R	35	17	20	9	3	15		P	S	7'	Y						Ex	N	N	P	D	D	D	in decline, drought stress
333	southern magnolia	*Magnolia grandiflora*	17	L	30	19	17	18	15	65		A	S		Y						Mo	N	N	F	B-	B-	B-	drought stress, top dieback
334	southern magnolia	*Magnolia grandiflora*	11.5	R	25	8	13	14	12	15		A	S	N	N						Ex	N	N	P	D	D	D	drought stress, in decline
335	southern magnolia	*Magnolia grandiflora*	10	R	30					0															F	F	F	standing dead
336	Italian cypress	*Cupressus sempervirens*	11 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
337	Italian cypress	*Cupressus sempervirens*	7.5 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure

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338	Italian cypress	*Cupressus sempervirens*	9.5 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
339	Italian cypress	*Cupressus sempervirens*	7 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
340	Italian cypress	*Cupressus sempervirens*	11 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
341	Italian cypress	*Cupressus sempervirens*	10 at 2ft	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
342	Italian cypress	*Cupressus sempervirens*	9.5 at 2ft	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
343	Italian cypress	*Cupressus sempervirens*	15 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
344	Italian cypress	*Cupressus sempervirens*	9 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
345	Italian cypress	*Cupressus sempervirens*	13 at base	H	45	4	4	4	4	100		A	A	N	N						Mi	Y	N	A	A	A	A	in hedge around structure
346	southern magnolia	*Magnolia grandiflora*	14	L	35	16	16	16	13	40	N	A	S	10'	Y						Mo	N	N	F	B-	B	B-	drought stress, top and interior dieback

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
347	southern magnolia	*Magnolia grandiflora*	17	L	35	28	18	15	16	50	N	A	S	7'	Y						Mo	N	N	F	B-	B	B-	drought stress, top and interior dieback
348	Mexican fan palm	*Washingtonia robusta*	BT 20'	M	27	6	6	6	6	100			A								N	N	N	A	A	A	A	next to building ramp
349	lemon-scented gum	*Corymbia citriodora*	21.5	M	45	8	26	39	22	70	SE	A	A	15'	Y						Mo	N	N	F	B-	B-	B-	top and interior dieback, small dead branches
350	Mexican fan palm	*Washingtonia robusta*	BT 22'	M	28	5	5	4	5	100			A								N	N	N	A	A	A	A	in corner against building
351	southern magnolia	*Magnolia grandiflora*	17	R	30	10	8	18	13	20		P	S	12'	Y						Ex	N	N	P	D	D	D	in decline, dead top, hob, almost dead
352	southern magnolia	*Magnolia grandiflora*	10	R																					F	F	F	standing dead
353	southern magnolia	*Magnolia grandiflora*	11	R																					F	F	F	standing dead
354	southern magnolia	*Magnolia grandiflora*	15	R																					F	F	F	standing dead
355	rusty-leaf fig	*Ficus rubiginosa*	~130 at 6ft	H	80	47	55	57	55	100	N	A	A	10'	Y	B					N	N	N	E	A	B+	A-	old large cuts, mpe, hob, specimen tree

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
356	jacaranda	*Jacaranda mimosifolia*	20	M		19	19	31	19	80	S	A	A	10'	Y	T					Mi	Y	N	A	A-	B-	B+	mpe, mba, maintain pruning, column of decay
357	jacaranda	*Jacaranda mimosifolia*	26	M	35	16	31	34	28	70	S	A	A	12'	Y						Mi	N	N	A	B	B	B	animal digging around base, mpe, mba
358	southern magnolia	*Magnolia grandiflora*	31	M	40	21	31	32	25	70		A	A		Y						Mo	N	N	F	B-	B	B-	mpe, tip DB, drought stress
359	California fan palm	*Washingtonia filifera*	BT 50'	H	58	7	7	7	7	100			A								N	N	N	A	A	A	A	
360	southern magnolia	*Magnolia grandiflora*	20	M	35	17	22	22	15	50		A	S		Y						Mo	N	N	F	B-	B	B-	drought stress, tip DB
361	southern magnolia	*Magnolia grandiflora*	34	M	45	28	22	21	18	70		A	A	6'	Y			Y			Mi	N	N	A	B-	C+	C+	2 large tears, hob, mpe, prune to lighten load
362	California fan palm	*Washingtonia filifera*	BT 37'	H	45	7	7	7	7	100		A	A								N	N	N	A	A	A	A	
363	California fan palm	*Washingtonia filifera*	BT 45'	H	52	7	7	7	7	100		A	A								N	N	N	A	A	A	A	
364	jacaranda	*Jacaranda mimosifolia*	20.5	M	35	36	27	31	29	80	NW	A	A	8'	Y						Mi	N	N	A	A	B	B+	animal digging around base, mpe, mba

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
365	California fan palm	*Washingtonia filifera*	BT 45'	H	52	7	7	7	7	100			A								N	N	N	A	A	A	A	
366	deodar cedar	*Cedrus deodara*	33	M	50	26	33	28	32	65	E	A	S		Y						Mo	N	N	F	B-	B	B-	drought stress, mpe, slight lean east
367	Mexican fan palm	*Washingtonia robusta*	BT 18'	M	23	6	6	6	6	100											N	N	N	A	A	A	A	growing through asphalt, next to building
368	windmill palm	*Trachycarpus fortunei*	BT 25'	M	30	4	4	4	4	100			A								N	N	N	A	A	A	A	
369	windmill palm	*Trachycarpus fortunei*	BT 20'	M	25	4	4	4	4	100			A								N	N	N	A	A	A	A	
370	Mexican fan palm	*Washingtonia robusta*	BT 40, 40'	H	47, 47	17	7	10	7	100	S		A	Y base							N	N	N	A	A	A	A	
371	Mexican fan palm	*Washingtonia robusta*	BT 45'	H	52	6	6	6	6	100			A	N							N	N	N	A	A	A	A	
372	Mexican fan palm	*Washingtonia robusta*	BT 43'	H	50	6	6	6	6	100			A	N							N	N	N	A	A	A	A	
373	queen palm	*Syagrus romanzoffiana*	BT 25'	M	32	13	13	13	13	100			A	N							N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
374	Mexican fan palm	*Washingtonia robusta*	BT 25'	H	32	7	7	7	7	100			A	N						Y	N	N	N	A	A	A	A	
375	Mexican fan palm	*Washingtonia robusta*	BT 27'	H	34	7	7	7	7	100			A	N							N	N	N	A	A	A	A	
376	windmill palm	*Trachycarpus fortunei*	BT 27'	M	32	5	5	5	5	100			A	N							N	N	N	A	A	A	A	
377	windmill palm	*Trachycarpus fortunei*	BT 25'	M	30	5	5	5	5	100			A	N							N	N	N	A	A	A	A	
378	camphor	*Cinnamomum camphora*	50.5	M	35	23	23	22	21	60	N	A	S	10'	Y						Mo	N		F	B-	B	B	top dieback, stub cuts, large cuts, moderate DB
379	bunya bunya	*Araucaria bidwillii*	45	H	100	16	18	16	14	100	N	A	A	N	N						Mi	N		A	A	A	A	raised, surrounded by turf
380	variegated orchid tree	*Bauhinia variegata*	11	H	20	16	14	14	15	100	N	A	A	N	Y						Mi	N		A	A	A	A	mpe
381	crape myrtle	*Lagerstroemia indica*	9	R	25	13	12	15	14	20	N	A	S	N	Y						Ex	N		P	D	C	D	in decline, dead foliage
382	jacaranda	*Jacaranda mimosifolia*	17	H	35	20	19	27	22	80	SE	A	A	N	Y					Y	Mi	N		A	A	B	B+	mpe, mba, minor fire damage to foliage

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
383	Brazilian pepper	*Schinus terebinthifolius*	32.5	H	30	18	20	25	16	100	SE	A	A	6'	Y						Mi	N		A	A	B	B+	raised, interior DB, mba
384	jacaranda	*Jacaranda mimosifolia*	23	H	40	23	25	31	34	90		A	A	6'	Y						Mi	N		A	A	B+	B+	mpe, mba
385	coast live oak	*Quercus agrifolia*	37	H	45	33	24	42	44	80		A	A	7'	Y						Mi	N		A	A	B	B	fused scaffolds,mpe, interior DB, overextends to south
386	Brazilian pepper	*Schinus terebinthifolius*	4, 9, 9, 14	L	35	15	8	15	24	65		A	S	3'	Y						Mo	Y		A	B	C	B-	mpe, overpruned, basal sprouts
387	Brazilian pepper	*Schinus terebinthifolius*	16.5	L	30	19	10	10	15	40	N	A	S	N	Y						Mi	N		A	B	C	B-	mpe, large cuts, basal sprouts, overpruned
388	laurel-leaf snail seed	*Cocculus laurifolius*	8	L	20	11	10	5	12	70	W	P	A	N	Y	Y base					N	Y		A	B	C	C+	ants, basal cavity, column of decay, mpe
389	laurel-leaf snail seed	*Cocculus laurifolius*	10.5	L	15	15	12	18	20	80	N	P	A	N	Y	Y base					N	Y	Y	A	B	C	C+	white wooly scale, mpe, basal sprouts
390	Chinese elm	*Ulmus parvifolia*	12	M	45	20	28	25	22	80		N	A	Y	Y						Mi	Y		A	B	B-	B-	interior DB, shaded by oak
391	avocado	*Persea americana*	13	R																					F	F	F	standing dead

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
392	weeping fig	*Ficus benjamina*	32.5 at 3ft	M	45	31	34	34	30	70		A	A	5'	Y						Mi	N		A	A	B	B+	stake embedded in trunk, mpe, sparse,
393	southern magnolia	*Magnolia grandiflora*	9	R																					F	F	F	standing dead
394	sapote	*Casimiroa edulis*	35 at 3ft	M	45	25	22	24	21	60		A	A	6'	Y						Mi	N		A	B	B	B	white mealybug, mpe
395	Brazilian pepper	*Schinus terebinthifolius*	7.5, 8, 8.5	M	25	15	14	11	18	85	N	A	A	3'	Y						Mi	N		A	A	B	B+	ants, mpe, raised
396	southern magnolia	*Magnolia grandiflora*	12.5	M	25	15	12	16	14	40	N	A	S	8'	Y						Mi	N		F	B-	B	B-	canopy all epicormic, mpe, overpruned
397	southern magnolia	*Magnolia grandiflora*	13	M	15	13	10	9	8	60	N	A	S		Y	Y base					Mi	N		F	B-	B-	B-	topped, canopy mostly epicormic, column of decay, hob
398	bottle tree	*Brachychiton populneus*	17	H	25	15	12	9	15	100		A	A	N	Y						N	Y	N	A	A	A	A	
399	bottle tree	*Brachychiton populneus*	18	M	25	6	17	16	20	65	S	A	S	8'	N						Mo	Y	N	F	B-	B+	B-	
400	Aleppo pine	*Pinus halepensis*	16	L	50	13	21	27	23	80	S	A	A	10'	N						N	Y	N	A	A	C	B-	growing out of box, hob, large codom failed

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
401	Aleppo pine	*Pinus halepensis*	10.5	L	45	13	10	9	11	70		A	S		N						Mo	Y	N	F	B-	B	B-	growing out of box
402	Chinese elm	*Ulmus parvifolia*	24	L	50	20	20	26	24	80		A	A	12'	Y	Y base					Mo	N	N	A	B+	B-	B	large failure, hob, interior DB, topped
403	lemon-scented gum	*Corymbia citriodora*	10.5, 19	M	70	10	11	44	30	90	W	A	A	4'	Y						Mi	N	N	A	B+	B-	B	heavy lean west, hob, small dead branches
404	shamel ash	*Fraxinus uhdei*	32.5	L	50	18	17	21	14	40		P	S	7'	Y						Ex	N	N	P	C-	C-	C-	top DB, epicormic growth, hob
405	windmill palm	*Trachycarpus fortunei*	BT 20'	M	26	5	5	5	5	100		A	A								N			A	A	A	A	
406	jujube	*Ziziphus jujuba*	7, 7.5, 7.5	M	25	4	15	16	13	60		A	S	5'	Y						Mo	N	N	F	B-	B	B-	interior DB, mpe, ants, mostly epicormic
407	roundleaf fountain palm	*Livistona rotundifolia*	BT 15, 17'	H	22, 24	9	8	7	5	100				base							N	N	N	A	A	A	A	growing in stand of same palm
408	roundleaf fountain palm	*Livistona rotundifolia*	BT 17'	H	24	6	6	6	6	100											N	N	N	A	A	A	A	growing in stand of same palm
409	roundleaf fountain palm	*Livistona rotundifolia*	BT 14, 16	H	21, 23	9	9	9	9	100				base							N	N	N	A	A	A	A	growing in stand of same palm

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
410	roundleaf fountain palm	*Livistona rotundifolia*	17	H	23	11	8	8	10	100											N	N	N	A	A	A	A	growing in stand of same palm
411	blackwood acacia	*Acacia melanoxylon*	26	L	30	14	34	20	23	50	E	P	S	8'	Y	T					Ex	N	Y	F	C	C	C	bees in basal cavity next to tank, top DB, hob
412	roundleaf fountain palm	*Livistona rotundifolia*	BT 18'	H	28	9	9	9	9	100											N	N	N	A	A	A	A	next to tank
413	roundleaf fountain palm	*Livistona rotundifolia*	BT 21'	H	28	9	9	9	9	100											N	N	N	A	A	A	A	next to tank
414	roundleaf fountain palm	*Livistona rotundifolia*	BT 16'	H	23	6	7	13	10	100	S										N	Y	N	A	A	A-	A-	leans over tank
415	roundleaf fountain palm	*Livistona rotundifolia*	BT 15'	H	22	2	8	9	6	100	S										N	Y		A	A	A-	A-	leans south, shaded
416	variegated orchid tree	*Bauhinia variegata*	2.5, 4.5, 4.5, 10	M	20	12	22	18	10	90		A	A	base	Y						Mi	Y	N	A	A	B-	B	mpe, sprouts from base, mba
417	Australian brush cherry	*Syzygium australe*	10, 10, 11	M	40	15	15	20	19	100		A	A	2'	Y				T		Mi	N	N	A	A	B	B+	bark peeling on one trunk, mechanical damage on road side
418	variegated orchid tree	*Bauhinia variegata*	9	M	15	14	20	14	13	100	E	A	A	N	Y						Mi	N	N	A	A	B-	B	mpe, mba, interior DB, overhangs house

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
419	bottle tree	*Brachychiton populneus*	18.5	L	30	5	22	16	15	45	S	P	S	N	Y						Mo	N	N	F	B-	B-	B-	bows south, unbalanced to south, mpe
420	orange tree	*Citrus sinensis*	9	M	20	11	13	11	9	70		A	A	5'	Y						Mi	N	N	A	B+	B	B	mpe; drought stress
421	Chinese elm	*Ulmus parvifolia*	26.5	M	40	31	27	21	26	100		A	A	8'	Y						Mi	N	N	A	B	B-	B-	heavy load on north, mpe, overextended branches
422	Chinese elm	*Ulmus parvifolia*	20 at 3'	L	35	24	16	15	13	40	N	P	S	5'	Y	T	Y				Ex	Y	Y	P	B	C-	C-	column of decay, top DB, hob, topped, mpe
423	red ironbark	*Eucalyptus sideroxylon*	34.5	M	75	28	23	34	35	75	W	A	A	12'	Y						Mi	N	N	A	B	B	B	mpe, hob, old tear
424	Chinese elm	*Ulmus parvifolia*	21	M	45	24	19	33	32	65		A	S	14'	Y						Mo	N	N	F	B-	B-	B-	hanger, heavy ends, hob, mpe, topped
425	Chinese elm	*Ulmus parvifolia*	18.5	L	50	23	12	19	22	100	W	P	A	6'	Y		Y				Mi	Y	N	A	B+	D	C-	significant anthracnose canker on trunk, severe at codom, hob, crack at codom
426	avocado	*Persea americana*	9.5, 9.5	R																					F	F	F	standing dead
427	arborvitae	*Thuja occidentalis*	3.5, 5, 6.5, 8, 9, 9	L	25	18	23	14	18	40		P	S	2'	N						Ex	N	N	F	C-	B-	C	drought stress, hob, two trunks topped

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
428	olive	*Olea europaea*	15	M	25	16	10	16	17	85	N	A	A	N	Y						Mo	N	N	A	B+	B-	B	topped, basal sprouts, mpe, mba
429	mulberry	*Morus alba*	26.5	L	40	26	25	35	38	70	W	A	S	10'	Y					Y	Mo	N	N	F	B-	B-	B-	hob, mpe, basal sprouts, topped, stub cuts
430	camphor	*Cinnamomum camphora*	26	R	45	12	23	11	12	20		P	S	12'	Y					Y	Ex	N	N	P	D	D	D	top DB, all epicormic growth, fire damage to west canopy
431	sweetshade	*Hymenosporum flavum*	20	L	45	15	14	23	17	35		P	S	8'	Y					Y	Ex	N	N	P	C	C	C	fire damage to west canopy
432	Mexican fan palm	*Washingtonia robusta*	BT 60'	H	67	6	6	6	6	100			A								N	N	N	A	A	A	A	
433	Mexican fan palm	*Washingtonia robusta*	BT 60'	H	67	6	6	6	6	100			A								N	N	N	A	A	A	A	
434	Mexican fan palm	*Washingtonia robusta*	BT 60'	H	67	6	6	6	6	100			A								N	N	N	A	A	A	A	
435	Mexican fan palm	*Washingtonia robusta*	BT 60'	H	67	6	6	6	6	100			A								N	N	N	A	A	A	A	
436	Mexican fan palm	*Washingtonia robusta*	BT 60'	H	67	6	6	6	6	100			A								N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
437	Mexican fan palm	*Washingtonia robusta*	BT 60'	H	67	6	6	6	6	100			A								N	N	N	A	A	A	A	
438	deodar cedar	*Cedrus deodara*	15.5	L	45	23	21	12	11	40	N	A	S	20'	N						Ex	N	N	P	C	C	C	no foliage on lower south, drought stress
439	camphor	*Cinnamomum camphora*	35	L	40	8	36	36	0	20	E	P	S	5'	Y						Ex	Y	N	P	D	C-	C-	hob, only epicormic, top DB
440	camphor	*Cinnamomum camphora*	18.5	L	40	12	15	17	6	20		P	S	N	Y						Ex	Y	N	P	C-	C-	C-	hob, only epicormic, top DB
441	camphor	*Cinnamomum camphora*	37.5 at 3ft	R	40	0	27	27	12	15		P	S	6'	Y						Ex	Y	N	P	D	D	D	hob, only epicormic, top DB
442	red river gum	*Eucalyptus camaldulensis*	39	M		26	32	58	48	85	S	A	A	25'	Y						Mi	N	Y	A	A	B+	B+	lerp psyllid
443	camphor	*Cinnamomum camphora*	21.5	R																					F	F	F	standing dead
444	coast redwood	*Sequoia sempervirens*	12	R																					F	F	F	standing dead
445	edible fig	*Ficus carica*	6, 7, 8, 9, 10, 12	L	20	20	20	24	20	50		A	S	base	Y						Mo	N	Y	F	B-	B-	B-	mpe, ants

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
446	deodar cedar	*Cedrus deodara*	25.5	R	60	39	26	27	27	15		P	S	35'	Y						Ex	N	N	P	D	D	D	in decline, hob, hanger, barely alive
447	coast redwood	*Sequoia sempervirens*	17.5	R																					F	F	F	standing dead
448	coast redwood	*Sequoia sempervirens*	18	R																					F	F	F	standing dead
449	avocado	*Persea americana*	16	R																					F	F	F	standing dead
450	London plane tree	*Platanus* x *acerifolia*	33.5	L	55	42	50	49	40	40		A	S	10'	Y						Ex	N	N	P	C-	C-	C-	almost all epicormic, hanger, mpe, hob
451	Queensland pittosporum	*Pittosporum rhombifolium*	13.5, 13.5	L	35	19	25	19	16	65		A	S	3'	Y						Mo	Y	N	F	B-	B-	B-	water pocket, hob, hanger
452	camphor	*Cinnamomum camphora*	33.5	L	45	32	38	37	34	50		A	S	8'	Y						Mo	N	N	F	C+	C+	C+	all epicormic, top DB, dead branches
453	southern magnolia	*Magnolia grandiflora*	15	L	25	20	13	22	24	50	W	A	S	7'	Y						Mo	Y	N	F	C	C	C	shaded by #454, interior DB, mpe
454	deodar cedar	*Cedrus deodara*	29	M	60	40	31	32	33	90		A	A	N	N						Mi	N	N	A	B-	B	B	drought stress, interior DB

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455	American sweetgum	*Liquidambar styraciflua*	23	M	55	16	20	24	25	80		A	A	35'	Y						Mi	Y	N	A	B	B	B	top DB, hob
456	camphor	*Cinnamomum camphora*	34.5	L	45	35	36	27	26	45		A	S	6'	Y						Mo	Y	N	F	C+	C	C+	southwest uplift, top DB, mostly epicormic, mpe
457	southern magnolia	*Magnolia grandiflora*	20	M	40	13	15	17	12	75		A	A	N	N						Mi	Y	N	A	A	A	A	southwest uplift, exposed roots
458	coast redwood	*Sequoia sempervirens*	14.5	L	50	10	10	13	11	65		A	S	N	Y						Mo	N	N	F	B-	B-	B-	basal sprouts, drought stress
459	camphor	*Cinnamomum camphora*	23.5	L	40	16	16	12	9	35		P	S	7'	Y						Ex	Y	N	P	C	C	C	top DB, mpe, all epicormic growth
460	jacaranda	*Jacaranda mimosifolia*	24	M	45	24	29	41	38	65		A	A	N	Y						Mi	N	N	A	A	B	B+	hob, mpe, unbalanced to south, old codom cut
461	jacaranda	*Jacaranda mimosifolia*	27 at 3ft	M	45	28	15	58	34	80		A	A	5'	Y	T					Mi	Y	N	A	B+	B-	B	basal cavities, hob, mpe, decay at old breaks
462	Chinese elm	*Ulmus parvifolia*	22	M	35	21	14	26	26	85		A	A	6'	Y						Mi	N	Y	A	B+	B-	B	hob, hanger, ants, mpe, top DB
463	avocado	*Persea americana*	19	R	25	13	2	0	6	5	N	P	S	10'	Y	T					Ex	N	N	P	D	D	D	only sprouts from trunk, column of decay, mpe

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
464	avocado	*Persea americana*	15	R	25	12	9	5	12	10	N	P	S	8'	Y	T					Ex	Y	N	P	D	D	D	only sprouts from trunk, column of decay, mpe
465	sapote	*Casimiroa edulis*	9	M	15	13	13	9	9	50		A	A	N	N						Mi	N	N	F	B-	B	B-	basal sprouts, mpe
466	avocado	*Persea americana*	5.5, 10.5	R	20	5	5	6	7	10		P	S	base	Y				Y		Ex	N	N	P	D	D	D	only epicormic growth
467	avocado	*Persea americana*	13	R	30	18	4	5	6	5	N	P	S	N	Y						Ex	Y	N	P	D	D	D	mpe, only epicormic growth
468	unknown dead tree	*N/A*	13.5	R																					F	F	F	standing dead
469	avocado	*Persea americana*	10	R	25	0	0	0	0	5	NE	P	S	N	Y						Ex	Y	N	P	D	D	D	only epicormic growth, almost dead
470	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	80	7	7	7	7	100		A	A	N							N	N	N	A	A	A	A	
471	Mexican fan palm	*Washingtonia robusta*	BT 80'	H	85	7	7	7	7	100		A	A	N							N	N	N	A	A	A	A	
472	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	80	7	7	7	7	100		A	A	N							N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
473	Chinese flame	*Koelreuteria bipinnata*	16.5, 23	M	40	26	42	41	21	80	SE	A	A	2'	Y						Mi	Y	N	A	B+	B	B+	interior DB, dead branch
474	Chinese flame	*Koelreuteria bipinnata*	16.5	L	45	31	20	14	23	70		A	A	12'	Y						Mo	Y	N	F	B-	B-	B-	hob, interior DB, dead branches
475	Chinese elm	*Ulmus parvifolia*	24	L	60	22	25	20	30	65	W	A	A	20'	Y	B					Mo	N	N	F	B	C	C+	hob, old codom cut at 6ft, top DB
476	Chinese elm	*Ulmus parvifolia*	20.5	L	35	19	13	14	31	70		P	A	9'	Y	T					Mo	Y	N	F	B-	C-	C	failure at codom, ground propping limb up, remove failed codom, topped
477	deodar cedar	*Cedrus deodara*	24.5	L	65	23	25	36	22	60		A	S	N	Y						Mo	N	N	F	B-	C+	C+	lower canopy DB, drought stress, hob, hangers
478	roundleaf fountain palm	*Livistona rotundifolia*	BT 17'	M	25	9	8	8	8	100		A	A	N	N						N	N	N	A	A	A-	A-	split on trunk, 2.5" depth
479	cherimoya	*Annona cherimola*	4.5, 5, 6	M	20	17	21	13	13	65	NE	A	A	2'	N	B					Mi	N	Y	A	B+	B	B	ants, old cuts with decay
480	cherimoya	*Annona cherimola*	5, 9.5	M	25	18	22	15	15	65	E	A	S	1'	N						Mo	N	Y	A	B-	B	B-	decay at old cuts/tears, hob, mpe, ants
481	cherimoya	*Annona cherimola*	5.5, 11	M	20	12	14	19	20	85	SW	A	A	2'	Y	T	Y				Mi	N	N	A	A	B	B+	decay at old cut, hob, mpe

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
482	Australian brush cherry	*Syzygium australe*	6.5, 7.5	L	25	18	13	11	0	90		A	A	4'	Y						Mo	N	N	F	C+	B-	C+	hob, mpe, topDB
483	Japanese persimmon	*Diospyros kaki*	6, 8.5	M	25	11	11	19	18	50	W	A	S	4'	N						Mo	N	N	F	B-	B	B-	top DB, end tip DB
484	cherimoya	*Annona cherimola*	7, 7.5	M	20	19	12	16	16	90		A	A	4'	Y	T					Mi	Y	N	A	A	B	B+	decay at old codom, basal cavity, water pocket
485	cherimoya	*Annona cherimola*	4.5, 7.5, 8.5	M	25	19	20	11	15	100	E	A	A	base	N						Mi	Y	N	A	A	A-	A-	mpe, mba, decay at old cuts
486	Chinese elm	*Ulmus parvifolia*	27	M	55	34	26	27	37	75		A	A	10'	Y	B					Mi	Y	N	A	A	B-	B	mpe, hob, large tears, prune, nest in canopy
487	Chinese elm	*Ulmus parvifolia*	22.5	M	55	23	33	20	14	75	E	A	A	8'	Y	B					Mi	Y	N	A	A	B-	B	large codom removed, mpe, hob
488	Canary Island date palm	*Phoenix canariensis*	BT 45'	H	55	14	14	14	14	100		N	A	N	N						N	N	N	A	A	A	A	slight hourglass at 25ft
489	queen palm	*Syagrus romanzoffiana*	BT 35'	L	40	12	12	12	12	100		N	A	N	N				Y		N	N	N	A	A	C	C+	weedwacker damage at base, mechanical damage up trunk
490	queen palm	*Syagrus romanzoffiana*	BT 50'	M	55	12	12	12	12	100		N	A	N	N				Y		N	N	N	A	A	B	B	weedwacker damage at base

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
491	cliff date palm	*Phoenix rupicola*	BT 35'	H	45	10	10	10	10	100		N	A	N	N						N	N	N	A	A	A	A	
492	Canary Island date palm	*Phoenix canariensis*	BT 16'	H	25	15	15	15	15	100		N	A	N	N						N	Y	N	A	A	A	A	adjacent palm less than 15ft
493	Canary Island date palm	*Phoenix canariensis*	BT 40'	H	50	15	15	15	15	100		N	A	N	N						N	N	N	A	A	A	A	
494	Canary Island date palm	*Phoenix canariensis*	BT 1, 2, 3, 8, 30'	H	7, 10, 12, 18, 40	15	15	15	15	100		N	A	Y	N						N	N	N	A	A	A	A	young cluster of palms
495	Canary Island date palm	*Phoenix canariensis*	BT 45'	H	55	14	14	14	14	100		N	A	N	N						N	N	N	A	A	A	A	
496	Canary Island date palm	*Phoenix canariensis*	BT 40'	M	50	11	11	11	11	100		N	A	N	N				Y		N	N	N	A	A	B-	B	middle of pineapple gone, base shaved on southwest
497	windmill palm	*Trachycarpus fortunei*	BT 20'	H	23	4	4	4	4	100		N	A	N	N						N	N	N	A	A	A	A	cabbage palm adjacent
498	myrtle	*Myrtus communis*	4, 6, 8	L	20	13	7	12	14	50	S	A	S	base	Y						Mo	Y	N	F	B-	B-	B-	mpe, top DB
499	plumeria	*Plumeria sp.*	7.5, 9.5	H	20	12	18	15	13	80	E	A	A	4'	N						N	N	N	A	B	A	B	mpe, recent pruning, leans away from building; drought stress - irrigate and fertilize

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
500	Mexican fan palm	*Washingtonia robusta*	BT 65'	H	70	7	7	7	7	100		A	A	N	N						N	N	N	A	A	A	A	
501	Mexican fan palm	*Washingtonia robusta*	BT 75'	H	80	7	7	7	7	100		A	A	N	N						N	N	N	A	A	A	A	
502	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	75	7	7	7	7	100		A	A	N	N						N	N	N	A	A	A	A	
503	windmill palm	*Trachycarpus fortunei*	BT 24'	H	28	5	5	5	5	100		A	A	N	N						N	N	N	A	A	A	A	
504	bottle tree	*Brachychiton populneus*	10.5, 11.5	L	25	11	10	2	8	70		A	S	3'	Y						N	N	N	F	C+	C+	C+	topped, excessive pruning, top DB
505	Mexican fan palm	*Washingtonia robusta*	BT 65'	H	70	6	6	6	6	100		A	A	N	N						N	N	N	A	A	A	A	growing in middle of #506
506	Senegal date palm	*Phoenix reclinata*	BT 25, 25, 26, 35, 38	H	28, 28, 29, 38, 41	10	14	16	12	100		A	A	base	N						N	N	N	A	A	A	A	5 trunks cut
507	Brazilian pepper	*Schinus terebinthifolius*	9.5	M	20	13	12	17	16	100	E	A	A		Y	Y					N	N	Y	A	A	B	B+	ants, mpe
508	Brazilian pepper	*Schinus terebinthifolius*	13.5, 27.5 at 3.5ft	M	30	25	26	28	37	100	E,W	A	A	base	Y						N	N	N	A	A	B	B+	mpe, mba

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
509	Brazilian pepper	*Schinus terebinthifolius*	14, 14, 15	M	25	24	20	16	25	80		A	A	6'	Y						N	N	N	A	A	B	B+	decay at old cuts, mpe, stub cuts
510	Brazilian pepper	*Schinus terebinthifolius*	26	M	30	18	20	22	24	100	SE	A	A	8'	Y						N	N	N	A	A	B	B+	mpe, mba
511	Italian stone pine	*Pinus pinea*	40.5	H	60	36	33	42	43	80		A	A	N	N				Y		N	N	N	A	A	A	A	mechanical damage on north side base, mpe, good callousing, long scaffold to west
512	California fan palm	*Washingtonia filifera*	BT 42'	H	50	10	10	10	10	100		A	N	N	N						N	N	N	A	A	A	A	
513	queen palm	*Syagrus romanzoffiana*	BT 35'	H	45	13	13	13	13	100		A	N	N	N						N	N	N	A	A	A	A	
514	southern magnolia	*Magnolia grandiflora*	25.5	M	35	28	21	26	23	65		A	S	N	Y						Mo	N	N	F	B-	A-	B	hob, mpe, top DB, drought stress
515	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	78	7	7	7	7	100		A	A	N	N						N	N	N	A	A	A	A	
516	Canary Island date palm	*Phoenix canariensis*	BT 50'	H	62	17	17	17	17	100		A	A	N	N						N	N	N	A	A	A	A	
517	Canary Island date palm	*Phoenix canariensis*	BT 45'	H	57	18	18	18	10	100		A	A	N	N						N	N	N	A	A	A-	A-	portion of pineapple missing, ficus sprout in pineapple

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
518	Canary Island date palm	*Phoenix canariensis*	BT 40'	H	52	14	14	14	14	100		A	A	N	N						N	N	N	A	A	A	A	ficus sprout in pineapple
519	queen palm	*Syagrus romanzoffiana*	BT 35'	H	45	15	16	16	6	100		A	A	N	N						N	Y	N	A	A	A	A	
520	deodar cedar	*Cedrus deodara*	35.5	M	42	24	24	26	26	55		A	S	N	N	T			Y		Mo	N	N	F	B-	B	B-	hob, old tear, mpe, drought stress, mechanical damage at base
521	California fan palm	*Washingtonia filifera*	BT 35'	H	45	11	11	11	11	100		N	A	N	N						N	N	N	A	A	A	A	
522	California fan palm	*Washingtonia filifera*	BT 40'	H	50	11	11	11	11	100		N	A	N	N						N	N	N	A	A	A	A	
523	southern magnolia	*Magnolia grandiflora*	16	M	30	20	16	18	20	50		A	S	13'	Y						Mi	N	N	F	B	B	B	mostly epicormic, flush cuts
524	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	7	7	7	7	100		A	A	A	N						N	N	N	A	A	A	A	tagged low, east side
525	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	7	7	7	7	100		A	A	A	N						N	N	N	A	A	A	A	tagged low, east side
526	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	7	7	7	7	100		A	A	A	N						N	N	N	A	A	A	A	tagged low, east side

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
527	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	7	7	7	7	100		A	A	A	N						N	N	N	A	A	A	A	tagged low, east side
528	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	7	7	7	7	100		A	A	A	N						N	N	N	A	A	A	A	tagged low, east side
529	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	7	7	7	7	100		A	A	A	N						N	N	N	A	A	A	A	tagged low, east side
530	bunya bunya	*Araucaria bidwillii*	34.5	H	70	21	29	25	19	50		A	S	N	N						Mo	N	N	F	B	B	B	raised, mpe, mealybugs
531	Mexican fan palm	*Washingtonia robusta*	BT 55'	H	62	6	6	6	6	100		N	A	N	N						N	N	N	A	A	A	A	
532	windmill palm	*Trachycarpus fortunei*	BT 24'	H	30	5	5	5	5	100		N	A	N	N						N	N	N	A	A	A	A	
533	windmill palm	*Trachycarpus fortunei*	BT 22'	H	27	5	5	5	5	100		N	A	N	N						N	N	N	A	A	A	A	
534	Mexican fan palm	*Washingtonia robusta*	BT 21'	H	28	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	adjacent to building
535	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	7	7	7	7	100		N	A	N	N						N	N	N	A	A	A	A	in building courtyard, small figs surrounding

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
536	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	tagged low
537	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	tagged low
538	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	tagged low
539	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
540	Mexican fan palm	*Washingtonia robusta*	BT 65'	H	72	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
541	Mexican fan palm	*Washingtonia robusta*	BT 65'	H	72	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
542	Mexican fan palm	*Washingtonia robusta*	BT 45'	H	52	9	9	9	9	100		N	A	N	N						N	N	N	A	A	A	A	tagged on fence on east, ivy up trunk
543	Mexican fan palm	*Washingtonia robusta*	BT 45, 70'	H	52, 77	10	8	10	10	100		N	A	N	Y						N	N	N	A	A	A	A	ivy up trunk, tagged low
544	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	9	9	9	9	100		N	A	N	N						N	N	N	A	A	A	A	ivy up trunk, tagged low

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
545	windmill palm	*Trachycarpus fortunei*	BT 33'	H	38	5	5	5	5	100		N	A	N	N						N	N	N	A	A	A	A	surrounded by giant birds of paradise
546	windmill palm	*Trachycarpus fortunei*	BT 25'	H	30	5	5	5	5	100		N	A	N	N						N	N	N	A	A	A	A	growing through canopy of #547
547	edible fig	*Ficus carica*	see notes	M	30	15	20	21	15	80		N	A	base	N						Mi	N	N	A	A	B	B+	dbhs: 5, 5, 4, 5, 3.5, 2.5, 3.5, 3, 3.5, 2.5, 4, 4, 4, 1.5, 2, 1.5, 1.5
548	windmill palm	*Trachycarpus fortunei*	BT 25'	H	30	4	4	4	4	100		N	A	N	N						N	N	N	A	A	A	A	
549	edible fig	*Ficus carica*	see notes	M	20	18	11	13	18	100		N	D	base	Y						N	N	N	A	A	B	B+	dbhs: 5.5, 5.5, 5, 4, 3, 5.5, 5, 2, adjacent to building
550	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	6	6	6	6	100		N	A	N	N						N	N	N	A	A	A	A	
551	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	6	6	6	6	100		N	A	N	N						N	N	N	A	A	A	A	
552	unknown dead tree	*N/A*	14	R																					F	F	F	standing dead
553	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	6	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
554	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
555	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
556	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	tagged low
557	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
558	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
559	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	tagged low
560	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	tagged low
561	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
562	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
563	Mexican fan palm	*Washingtonia robusta*	BT 70'	H	77	8	8	8	8	100		N	A	N	N						N	N	N	A	A	A	A	
564	southern magnolia	*Magnolia grandiflora*	38.5	M	45	27	24	26	31	70		A	A	8'	Y	B					Mi	N	N	F	B-	B-	B-	hob, historical breakage, mpe, decay at old cuts
565	camphor	*Cinnamomum camphora*	7, 7.5	H	25	14	14	12	7	75	E	A	A	5'	N						MI	Y	N	A	A	B	B+	interior DB, surrounded by turf, mpe
566	camphor	*Cinnamomum camphora*	10	H	25	16	14	13	12	65		A	S	7'	N						Mo	Y	N	F	B	B+	B	interior DB, surrounded by turf, mpe
567	crape myrtle	*Lagerstroemia indica*	4, 4.5, 5	H	20	14	10	18	10	90		A	A	3'	N						N	N	N	A	A	A	A	nest, mpe
568	crape myrtle	*Lagerstroemia indica*	7.5, 7.5, 9.5	H	30	18	18	18	18	85		A	A	2'	N						Mi	N	N	A	A	A	A	mpe
569	crape myrtle	*Lagerstroemia indica*	3.5, 4.5, 5, 5, 5.5, 5.5	H	25	14	13	13	13	90		A	A	2'	N						Mi	N	N	A	A	A	A	tagged on south, mpe
570	sweetshade	*Hymenosporum flavum*	10	M	35	13	18	12	10	65		A	S	7'	N						Mi	N	N	F	B	B	B	powerlines through on east property line
571	sweetshade	*Hymenosporum flavum*	10.5	H	35	11	13	10	13	75		A	A	N	N						Mi	N	N	A	A	A	A	powerlines through on east property line, hob

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
572	camphor	*Cinnamomum camphora*	10.5	H	30	15	15	15	15	80		A	A	6'	Y						Mi	N	N	A	A-	A-	A-	mpe, powerlines in canopy, interior DB
573	camphor	*Cinnamomum camphora*	8	H	25	13	17	8	11	70	NE	A	A	7'	Y						Mi	Y	N	A	A	B	B+	mpe, interior DB
574	camphor	*Cinnamomum camphora*	10.5	H	30	17	17	19	19	70	W	A	A	6'	Y						Mi	N	N	A	B+	B+	B+	powerlines in canopy, interior DB, mpe
575	camphor	*Cinnamomum camphora*	8	H	25	14	7	8	11	75	NE	A	A	8'	Y						Mi	N	N	A	B+	B+	B+	mpe, canopy pruned on east for powerlines
576	arborvitae	*Thuja occidentalis*	see notes	H	25	13	9	10	9	85		A	A	base	N						Mi	N	N	A	A	A	A	tagged on north, mpe, dbh 11.5, 7.5, 8.5, 6, 4, 11
577	camphor	*Cinnamomum camphora*	8	M	25	16	13	13	14	70		A	S	7'	Y	B					Mo	N	N	F	B	B	B	cavity at old tear, hob, mpe, top DB
578	camphor	*Cinnamomum camphora*	9.5	H	30	20	18	15	15	70	E	A	A	7'	Y						Mi	N	N	F	B	B	B	mpe, tip DB
579	sweetshade	*Hymenosporum flavum*	8	H	35	9	15	9	9	65		A	A	12'	N						Mi	N	N	A	B	B	B	mpe, next to building
580	sweetshade	*Hymenosporum flavum*	8	H	35	13	15	6	6	60		A	A	7'	N						Mi	N	N	A	B	B	B	mpe, next to building

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
581	sweetshade	*Hymenosporum flavum*	12.5	H	5	15	15	14	13	80		A	A	N	N						Mi	N	N	A	B+	B+	B+	mpe, next to building
582	shiny xylosma	*Xylosma congestum*	22	H	45	28	23	23	28	90	E	A	A	15'	Y						Mi	N	N	A	A	B	B+	codom cut, mpe, interior DB, next to southwest, uplift
583	edible fig	*Ficus carica*	9.5, 9.5	M	25	20	17	12	14	100	B	A	A	3'	Y						N	N	N	A	A	B-	B	basal sprouts, next to building
584	fern pine	*Afrocarpus gracilior*	31	H	55	22	25	25	23	80	N	A	A	20'	Y						N	N	N	A	A	A	A	mpe, stub cuts, next to building
585	Italian cypress	*Cupressus sempervirens*	13.5	H	60	9	9	8	6	100		A	A	N	N						Mi	N	N	A	A	B	B+	lower DB, pruned away from building
586	Italian cypress	*Cupressus sempervirens*	26 at base	H	60	7	7	7	7	100		A	A	N	N						N	N	N	A	A	A	A	tagged at base
587	Indian laurel fig	*Ficus microcarpa*	43 at 2.5ft	H	55	27	30	41	40	60		A	S	8'	Y						N	N	N	A	B+	B	B+	crossed branches, overpruned, stub cuts
588	shiny xylosma	*Xylosma congestum*	17	H	45	23	14	17	25	90	SW	A	A	6'	Y						Mi	Y	N	A	A	B	B+	mpe
589	fern pine	*Afrocarpus gracilior*	27	H	55	25	14	22	27	75	W	A	A	11'	Y						Mi	N	N	A	A	A	A	mpe, overpruned

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
590	Japanese loquat	*Eriobotrya japonica*	6.5, 8	H	35	15	8	15	15	100		A	A	2'	N						Mi	N	N	A	A	B	B+	lost trunk, pruned on east for powerlines, hob, fruit on ground
591	shamel ash	*Fraxinus uhdei*	20	L	50	21	21	19	19	75		A	S	20'	Y						Mo	N	N	F	B-	B-	B-	topped, mpe, mba, top DB
592	Cape cheesewood	*Pittosporum viridiflorum*	15	H	35	13	9	12	14	90		A	A	N	N						Mi	N	N	A	A	A	A	
593	carob	*Ceratonia siliqua*	40.5	M	45	35	27	38	42	85		F	A	8'	Y			Y			Mi	N	Y	A	A	B	B	water pocket, hob, mpe, termites, heart rot
594	sweetshade	*Hymenosporum flavum*	19.5	R																					F	F	F	standing dead
595	Chinese elm	*Ulmus parvifolia*	17, 20.5	L	35	16	22	23	21	60	S	P	S	4'	Y	T					Mo	N	N	F	B-	C	C+	codom cut, large tear, hob
596	Canary Island pine	*Pinus canariensis*	27	H	70	15	12	16	13	85		A	A	N	Y						Mi	N	N	A	A	A	A	stub cuts, mpe, shaped
597	Canary Island pine	*Pinus canariensis*	28	H	60	17	14	15	14	90		A	A	N	Y						Mi	N	N	A	A	A	A	raised, mpe, stub cuts, shaped
598	Canary Island pine	*Pinus canariensis*	22.5	H	65	11	14	12	9	85		A	A	N	Y				Y		Mi	N	N	A	A	A	A	mechanical damage on north base, stub cuts, mpe, shaped

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599	Canary Island pine	*Pinus canariensis*	26.5	H	60	13	17	16	13	90		A	A	N	Y						Mi	N	N	A	A	A	A	stub cuts, mpe, shaped
600	Canary Island pine	*Pinus canariensis*	23.5	H	55	14	15	15	13	90		A	A	N	Y						Mi	N	N	A	A	A	A	stub cuts, mpe, shaped
601	Canary Island pine	*Pinus canariensis*	24	H	60	13	12	13	10	90		A	A	N	Y						Mi	N	N	A	A	A	A	crook in trunk at 12ft, old codom cut, stub cuts, mpe, shaped
602	Canary Island pine	*Pinus canariensis*	29.5	H	70	14	15	13	13	90		A	A	7'	Y						Mi	N	N	A	A	B+	A	
603	Canary Island pine	*Pinus canariensis*	24	H	65	10	14	50	14	90	E	A	A	A	Y						Mi	N	N	A	A	A-	A	
604	Canary Island pine	*Pinus canariensis*	17.5	H	45	12	14	16	12	90		A	A	N	Y						N	N	A	A	A	A	A	stub cuts, shaped, mpe
605	Canary Island pine	*Pinus canariensis*	21	H	45	14	15	19	16	90		A	A	30'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe
606	Canary Island pine	*Pinus canariensis*	30	H	70	12	17	19	14	90		A	A	38'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe
607	Canary Island pine	*Pinus canariensis*	24	H	60	19	17	17	16	90		A	A	50'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
608	Canary Island pine	*Pinus canariensis*	24	H	55	13	16	17	12	90	E	A	A	28'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe, slight lean east
609	Canary Island pine	*Pinus canariensis*	25	H	60	13	17	20	15	90		A	A		Y						N	N	A	A	A	A	A	stub cuts, shaped, mpe
610	Canary Island pine	*Pinus canariensis*	27	H	60	18	20	17	14	90		A	A		Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
611	Canary Island pine	*Pinus canariensis*	23	H	65	11	15	13	8	90		A	A		Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
612	Canary Island pine	*Pinus canariensis*	18	H	65	11	13	14	10	90		A	A		Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
613	Canary Island pine	*Pinus canariensis*	25	H	65	10	12	16	15	90		A	A		Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
614	Canary Island pine	*Pinus canariensis*	27	H	70	12	11	13	13	90		A	A	30'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe
615	Canary Island pine	*Pinus canariensis*	25	H	60	20	21	19	19	90		A	A	20'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe
616	Canary Island pine	*Pinus canariensis*	20	H	55	13	14	20	13	90		A	A	20'	Y						N	N	A	A	B+	A	A	stub cuts, shaped, mpe

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
617	Canary Island pine	*Pinus canariensis*	31	H	65	16	15	16	14	90		A	A	N	Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
618	Canary Island pine	*Pinus canariensis*	24	H	60	14	15	17	15	90		A	A	N	Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
619	Canary Island pine	*Pinus canariensis*	28	H	70	15	16	17	13	90		A	A	N	Y						N	N	A	A	A	B+	A	stub cuts, shaped, mpe
620	Canary Island pine	*Pinus canariensis*	27	H	60	19	21	22	16	80	E	A	A	N	Y						N	N	A	A	A-	A	A	stub cuts, shaped, mpe, slight lean east
621	Canary Island pine	*Pinus canariensis*	21	H	60	17	16	17	14	80		A	A	N	Y						N	N	A	A	A	A-	A	stub cuts, shaped, mpe
622	Canary Island pine	*Pinus canariensis*	31	H	60	15	16	19	15	80		A	A	N	Y						N	N	A	A	A	A-	A	stub cuts, shaped, mpe
623	Canary Island pine	*Pinus canariensis*	18	H	50	14	16	15	14	90		A	A	N	Y						Mi	N	N	A	A	A	A	stub cuts, shaped, mpe
624	Canary Island pine	*Pinus canariensis*	18	H	45	18	16	18	20	70		A	A	N	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe, overpruned interior
625	Canary Island pine	*Pinus canariensis*	25	H	60	20	21	19	11	70	E	A	A	N	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe

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626	Canary Island pine	*Pinus canariensis*	25	H	70	15	15	12	8	70	E	A	A	22'	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe, slight lean
627	Canary Island pine	*Pinus canariensis*	26.5	H	70	13	17	18	12	70		A	A	35'	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe
628	Canary Island pine	*Pinus canariensis*	24	H	70	13	16	15	14	70		A	A	N	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe
629	Canary Island pine	*Pinus canariensis*	20	H	60	14	17	18	11	70		A	A	N	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe
630	Canary Island pine	*Pinus canariensis*	20	H	55	16	16	17	14	70		A	A	25'	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe
631	Canary Island pine	*Pinus canariensis*	26	H	60	13	17	18	15	70		A	A	N	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe
632	Canary Island pine	*Pinus canariensis*	21.5	H	40	18	19	17	14	70		A	A	15'	Y						Mi	N	N	A	A	B+	A-	stub cuts, shaped, mpe, topped at 15ft
633	Canary Island pine	*Pinus canariensis*	22	H	60	14	17	15	12	70		A	A	N	Y						Mi	N	N	A	A	B+	A-	stub cuts, shaped, mpe
634	Canary Island pine	*Pinus canariensis*	29	H	60	12	16	16	15	70		A	A	N	Y						Mi	N	N	A	A	B+	A-	stub cuts, shaped, mpe

Tag Number	Common Name	Botanical Name	DBH[1] (in.)	Suitability for Preservation (L, M, H, R)[2]	Height (feet)[3]	Canopy Spread (feet)[4] N	E	S	W	% Canopy Cover	Lean	Wound Wood Dev. (P,A,E)[5]	Foliage Density (S, A, D)[6]	Codominant Trunks	Epicormic Growth	Cavities - Trunk / Branch	Cankers	Exudations	Mechanical Damage	Fire Damage	Dieback (N,Mi,Mo,Ex)[7]	Shaded Out	Pest / Disease	Vigor - (E,A,F,P)[8]	Health Grade	Structure Grade	Overall Grade	Comments (see notes for definitions of abbreviations)
635	Canary Island pine	*Pinus canariensis*	27	H	45	14	17	16	14	70		A	A	N	Y						Mi	N	N	A	A	B+	A-	stub cuts, shaped, mpe
636	Canary Island pine	*Pinus canariensis*	21.5	H	55	13	15	14	12	70		A	A	10'	Y						Mi	N	N	A	A	B+	A-	stub cuts, shaped, mpe
637	Canary Island pine	*Pinus canariensis*	25	H	55	11	19	16	8	70	E	A	A	N	Y						Mi	N	N	A	A	A-	A-	stub cuts, shaped, mpe
638	Senegal date palm	*Phoenix reclinata*	see notes	H	9, 9, 10, 20, 20, 20	10	12	14	10	100		A	A	base	N						N	N	N	A	A	B+	B+	BT 4, 4, 5, 15, 15, 15, several cut trunks
639	American sweetgum	*Liquidambar styraciflua*	11	R																				F	F	F	F	standing dead

GLOSSARY OF ARBORICULTURAL & DENDROLOGICAL TERMS

Abiotic: Non-living agents including environmental, physiological, & other nonbiological factors (i.e., aeration or water deficit, mechanical injury, or gas line leak).

***Arboriculture*:** Management of individual trees or groups of trees primarily for their amenity value.

***Basal wound*:** A cut or puncture at the base of the trunk of a tree, particularly bad in younger (developing) specimens. Often these wounds are caused by mowers and other gardening equipment and can be prevented by protective staking and the creation of dirt (no turf) surrounding areas - adjacent to the trunk.

Bleeding (from wood): Flow of sap, typically from pruning wounds.

Branch collar: The swelling at the base of a branch, to be left intact in any pruning.

Callus / wound wood: Lignified, partially differentiated tissue which develops from the callus associated with wounds.

Cambium / cambial: Meristematic tissue that gives rise to phloem & xylem.

Canker: An area of dead or malformed bark caused by a pathogen.

Canopy: A term used for the crown or spread of a tree's branches to emphasize its size and enclosing character. Parts of the tree above the trunk, including scaffold limbs, lateral branches, twigs, and leaves.
The canopy spread is often measured in feet.

Cavity: A void in a tree trunk, branch or root that may or may not be open to the exterior, generally created by decay. Over many years the wound may become entirely grown over (occluded) while the decay progresses within.

Co-dominant stems: Branches and *stems* that are nearly equal in size and relative importance

Compartmentalization: A form of defense in woody plants, in which barriers resistant to invasion by pathogens or wood decay fungi are laid down while the wood is living (sapwood), and which continue to act passively once the wood is incorporated into heartwood.

***Conifer*:** A botanical definition embracing trees with cones (ie. seeds not formed within ovaries), mostly with needle-like or scale-like leaves and mostly evergreen. Sometimes conifers are called 'softwoods'.

***Crotch*:** Where two branches of a tree intersect. A narrow crotch arise at an acute (narrow) angle, as when both branches are close to the vertical. The union is relatively weak if there is included bark.

Crown: The branches, twigs and foliage of a tree, considered collectively.

***Crown thinning, crown reduction and crown raising*:** Crown thinning removes branches from the crown without reducing the extent of the crown. Crown reduction decreases the extent of the crown without decreasing its density. Crown raising increases the headroom to the base of the canopy by removing lower branches.

Crown cleaning: The removal of dead, dying, damaged or diseased wood from the crown of a tree.

Deadwood: In the growth and development of a tree, branches compete with each other and weaker branches are eventually suppressed and die. The deadwood is then liable to fall (sometimes called 'natural pruning'). Deadwood develops naturally, largely in the inner and lower crown, of all trees that are mature and unmanaged.

***Decay*:** The progressive degradation of woody tissues caused by specialized fungi & bacteria through decomposition of cellulose & lignin. The pathogen typically enters through wounds in the roots (root rots), main stem or branches (butt and stem rots) and can then extend internally, over a timescale of years or decades, longitudinally or horizontally.

Deciduous: Leaves are lost in winter, as opposed to evergreen.

Diameter at breast height (dbh): The diameter of a tree measured at height 4.5 feet above natural grade. Typically used as a representation of tree size.

***Dieback*:** Death of shoots or roots starting at the extremities.

***Dripline*:** The outermost edge of the tree's canopy. When depicted on a map, the dripline will appear as an irregular shape that follows the contour of the tree's branches as seen from overhead.

***Epicormic shoots*:** Shoots arising from the base of a tree, its trunk or main framework branches, from buds dormant more than one season. May be stimulated by pruning (which increases the light reaching the lower part of the tree), or indicative of damage or decline in the upper crown.

Evergreen: Foliated throughout the year (although there is a gradual turnover of leaves).

Flush cut: A pruning cut that removes the branch collar and/or part of the branch ridge, slowing the occlusion of the wound or damaging its compartmentalization.

***Framework*:** Typically, the main branches (sometimes also called scaffold branches), each of which supports a significant portion of the crown. They largely determine the shape of the tree's crown depending on their height of origin, orientation etc. There is no precise distinction between framework branches and other lesser branches.

Gall: Abnormal growth of leaves, buds, stems etc. in reaction to the presence of an intrusive parasite, often an insect or mite.

***Girdle/girdling*:** Damage that kills the bark all the way round the stem; such as caused by wires or ties that were never removed when the tree was young. That which circles & constricts the stem or roots causing death of phloem &/or cambial tissue.

Habit (growth habit): Giving a tree its characteristic form, for example owing to the stoutness and orientation (fastigiated, ascending, spreading, pendulous, weeping etc.) of a tree's branches.

Hanger: Dead branch fallen from the crown but caught by, and resting on, branches lower down, which be liable to fall.

Heart rot: Decay in the center of the tree (heartwood).

***Included bark*:** Areas of bark on adjacent parts of a tree, typically on the inner faces of a narrow fork, which becomes grown over to occupy part of the internal joint. The bark-to-bark contact is weaker than the more usual woody union.

Lateral branch / limb: The next order of branch that rises from the scaffold limbs.

Leader: The topmost vertical shoot of a tree, present if the tree has strong apical dominance, characteristic of young trees and conifers. Trees with a rounded crown have no leader.

Mulch: a material (such as decaying leaves, bark, or compost) spread around or over a plant to enrich or insulate the soil.

***Parasite*:** An organism that exploits another, e.g., for food, to the prejudice of the host. Parasites may kill their hosts, be pathogenic or have little significant effect.

***Pathogen*:** A kind of parasite that causes disease.

Phloem: A transport tissue characterized by sieve tubes and companion cells, found the vascular bundles of higher plants. Functions in the transport of dissolved organic substances by translocation.

Photosynthesis: The chemical process by which chlorophyll-containing plants use light to convert carbon dioxide and water into carbohydrates, releasing oxygen as a by-product.

Pruning: The cutting off or cutting back of shoots or branches from a tree, whether to direct growth (formative pruning), make safe, to remove an obstructing or diseased part, to increase longevity (veteran trees), to maintain productivity (fruit trees) etc.

Root crown /collar / Root flare: The outwardly curving base of a tree where it joins the roots, often distinguishable as individual root buttresses.

Root crown inspection: Extensive examination of the junction of root & stem, including the area immediately below, aimed at determining stability, presence of disease, decay, etc.

Root plate**:** The area needed by a tree's root system to keep the tree stable; broadly, that part of the root system displaced when a tree is uprooted.

Root zone: The area of ground around the base of a tree that supports root growth; often extends far beyond the dripline of a tree.

Scaffold branch / limb**:** The first order of limbs or branches that arise from the trunk of a tree.

Soil: A mixture of mineral particles, often of various sizes due to weathering, roots and other living things, soil organic matter and the associated voids (pores) filled with air and/or water.

Soil aeration: The movement of gases in soil, primarily by diffusion through the soil pores. For example, oxygen diffuses from the atmosphere to the vicinity of the plant root while carbon dioxide diffuses in the opposite direction. The rate of diffusion is related to the proportion of the soil volume that contains air

Soil compaction: An increase in bulk density due to the pressure exerted by animals, vehicles, (locally) by root growth *etc*. Pore space is reduced, which may also restrict soil aeration, water infiltration and drainage.

Soil structure: The aggregation of soil particles into clumps (peds) of various shapes and the associated spaces between them, affecting many properties of soil including its porosity to air and water, and its fertility.

Soil texture: The size of the mineral particles in the soil, classified (from fine to coarse) as clay, silt, sand, gravel or stones, or some mixture of these to give a characteristic particle size distribution. Sandy soils give a light texture, clayey soils give a heavy texture.

Stub**:** That part of a pruned branch protruding beyond the branch collar. It is not good practice to leave stubs since they impede occlusion and are prone to decay.

Suckers: Shoots arising from the roots of a tree, which can arise surprisingly far from the parent.

Target: A target is the subject of injury or damage within range of a tree hazard

Topping**:** A kind of pruning in which the branches of a tree are all decapitated to reduce the tree to a specific height. An indiscriminate form of pruning not regarded as good practice, to which some trees, such most conifers, are intolerant.

Training: To change the shape of a tree by means other than (formative) pruning, typically by tying young branches into a particular position.

Transpiration**:** Loss of water vapor from the surface of leaves & other aboveground parts of the plant.

Vigor / vigorous**:** Overall health; the capacity to grow & resist physiological stress.

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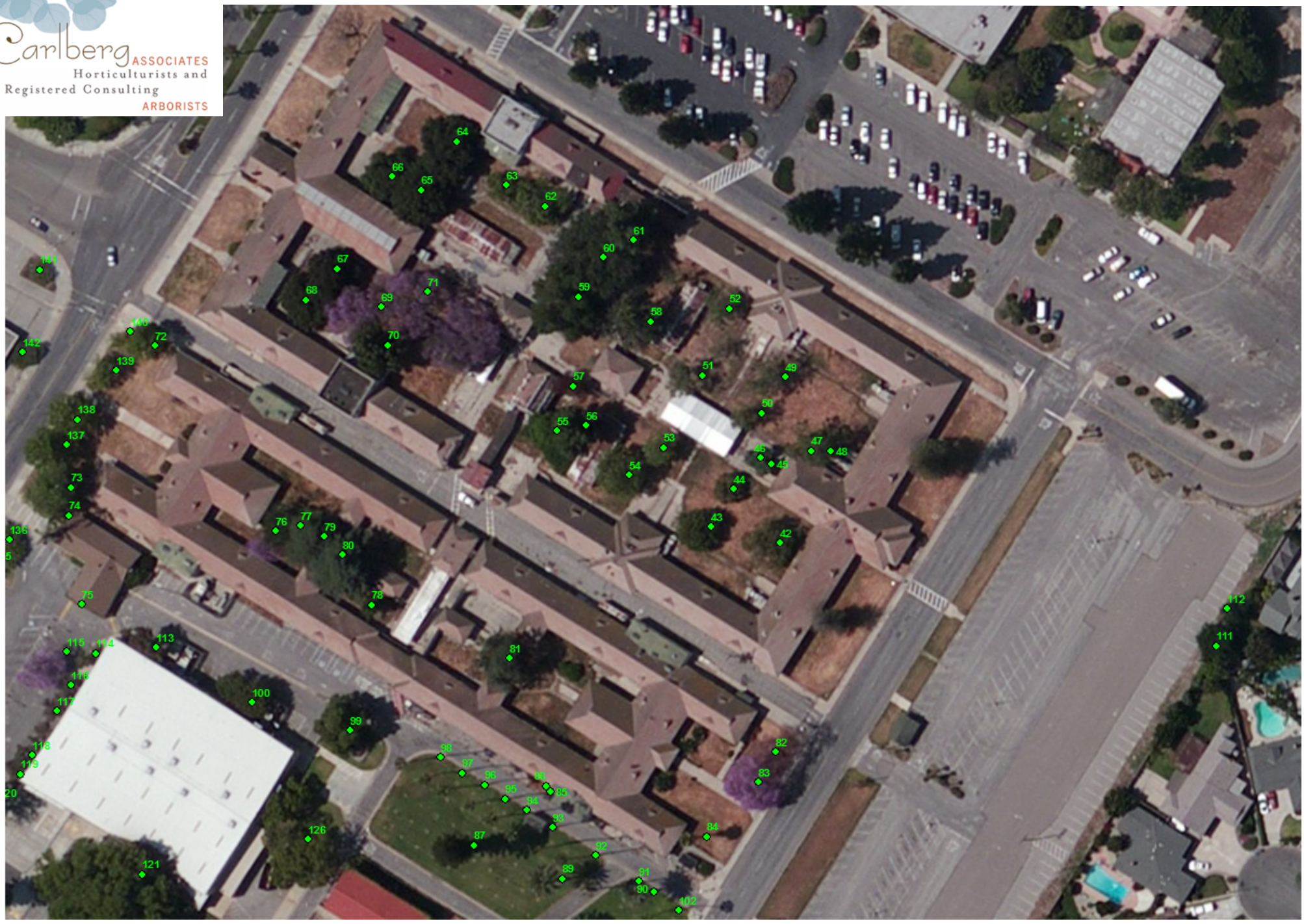


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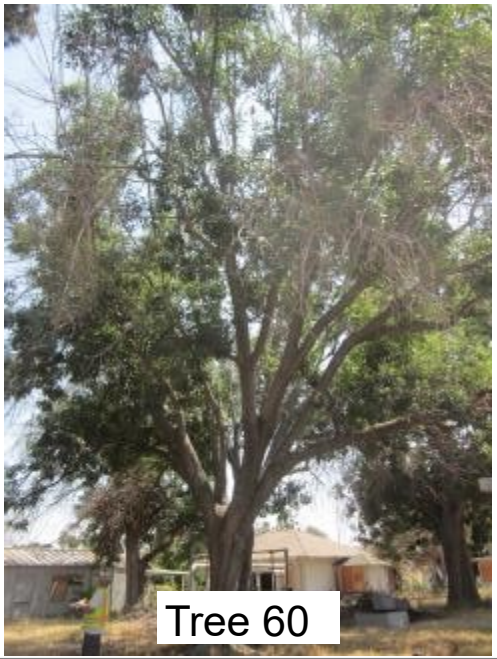

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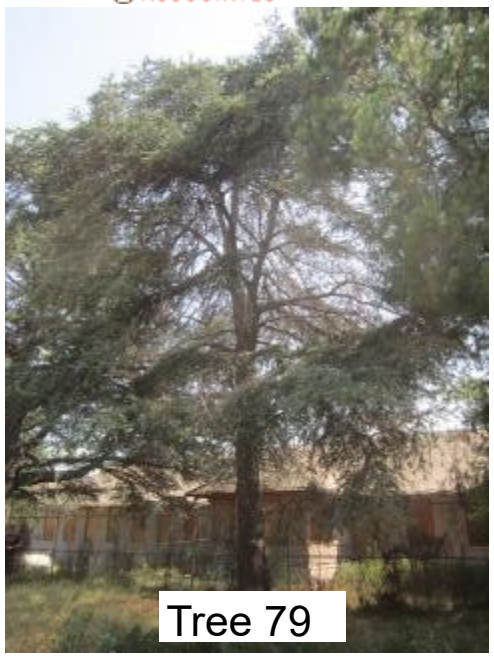

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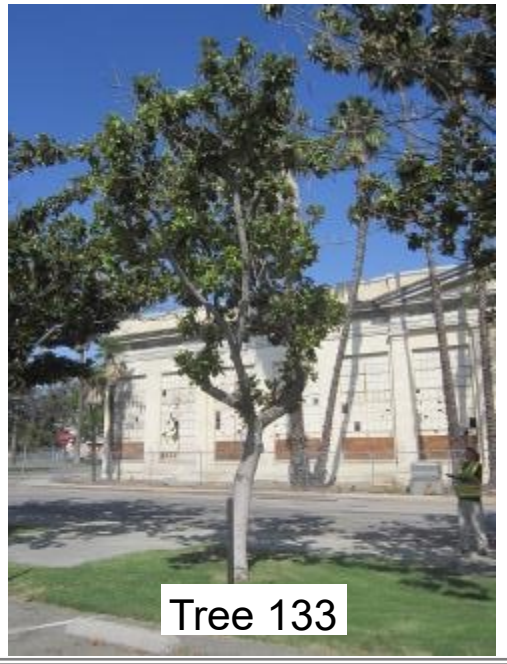

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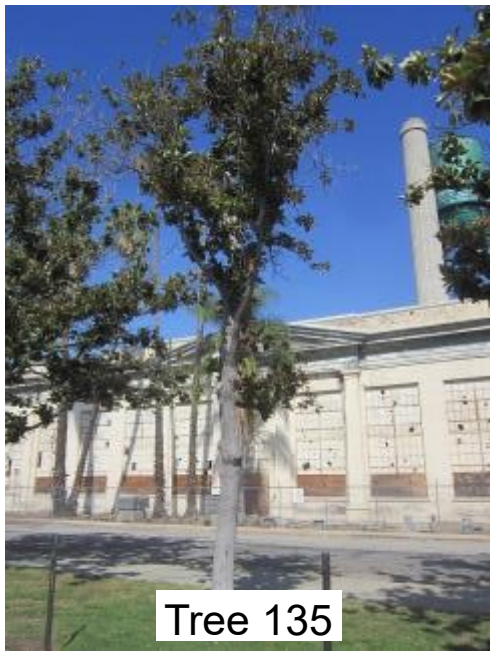

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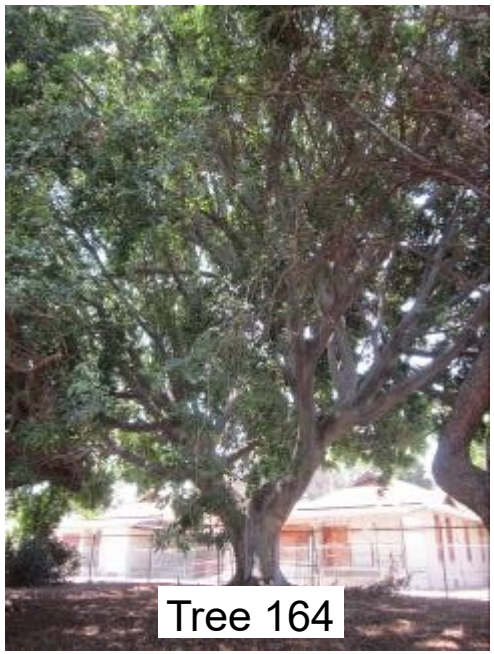

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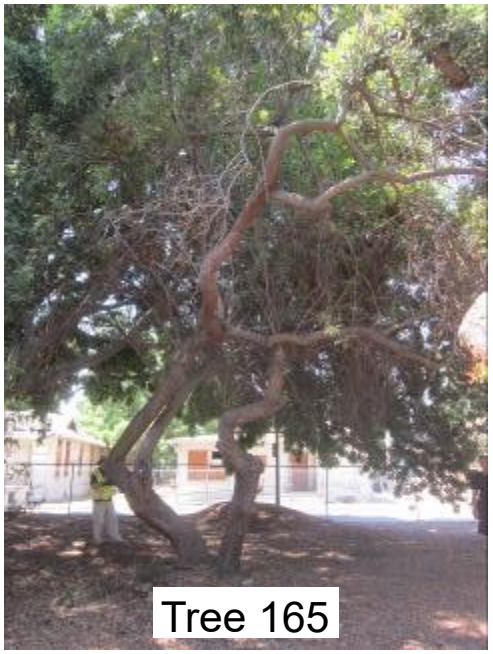

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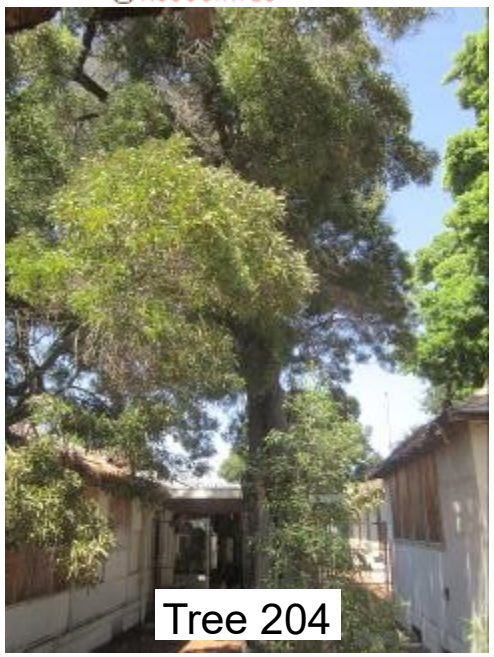

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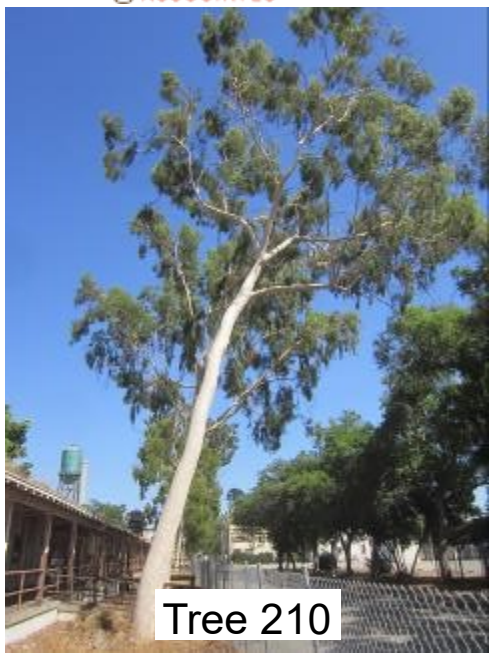

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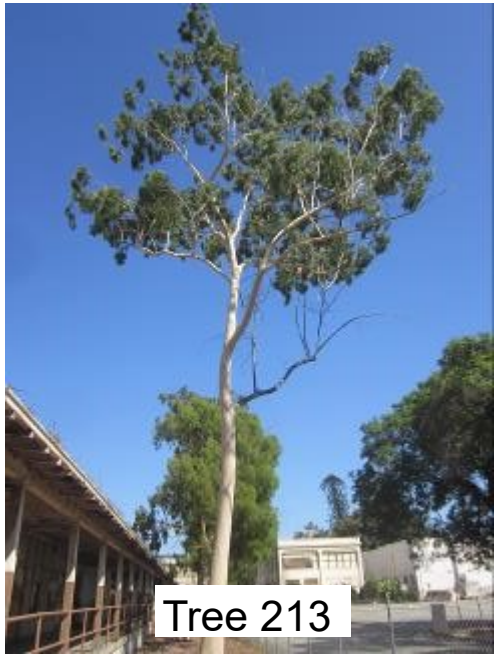

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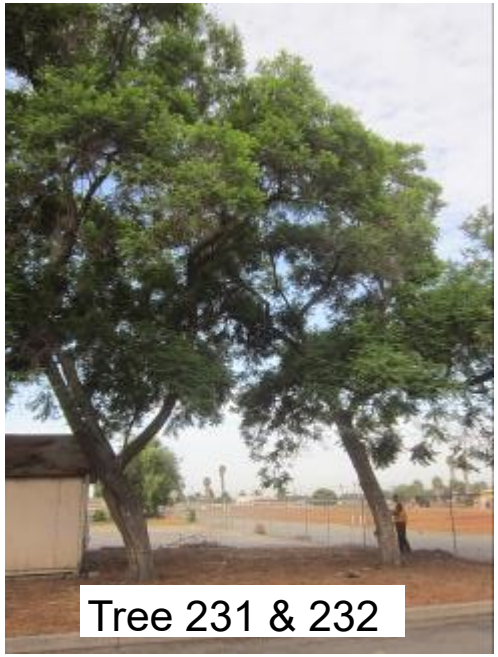

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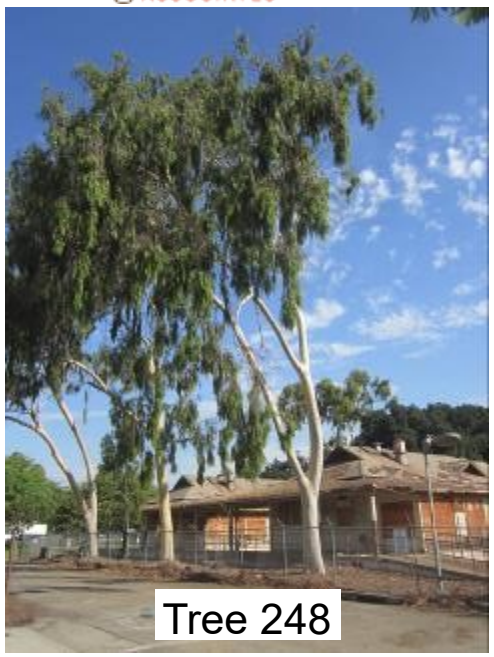

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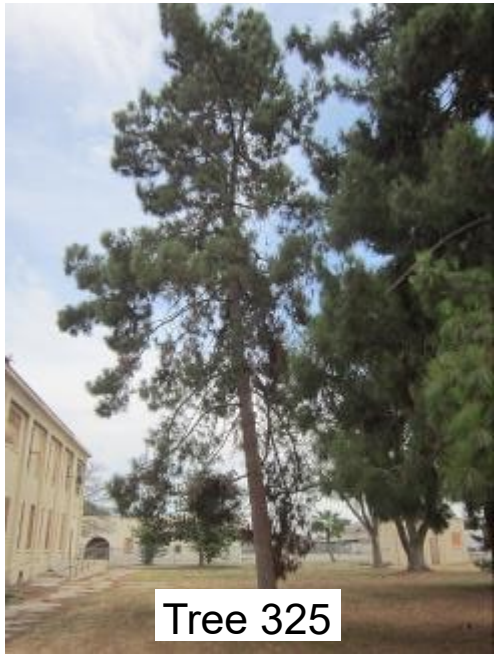

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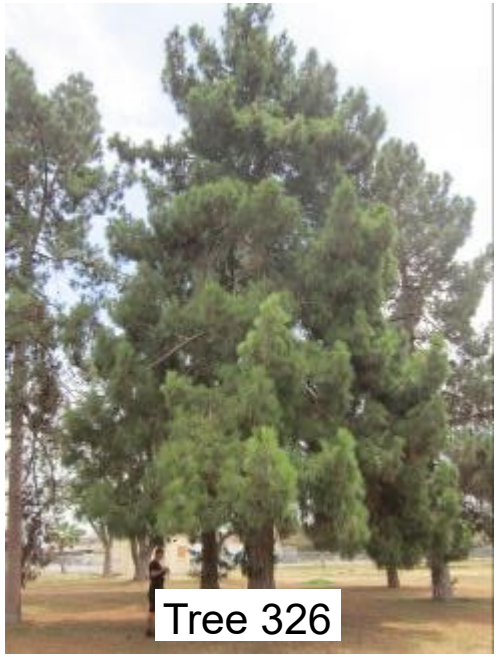

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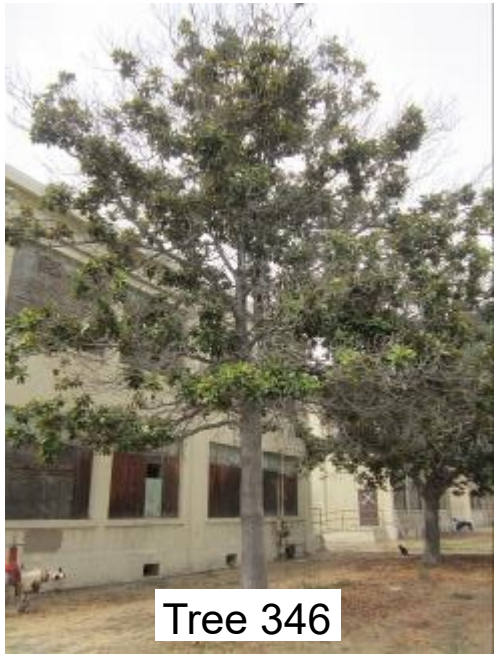

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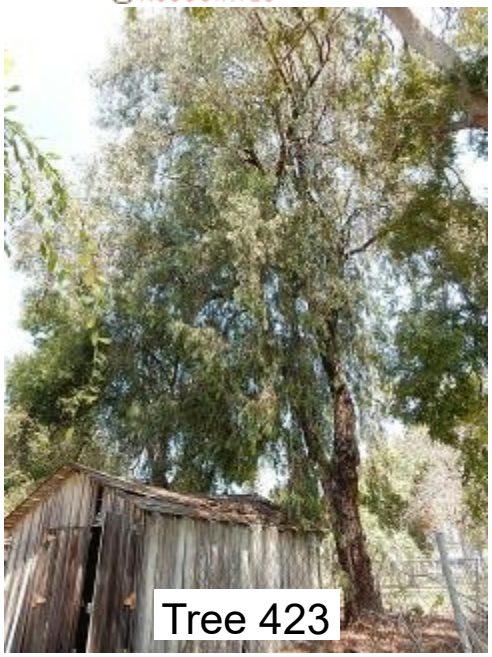

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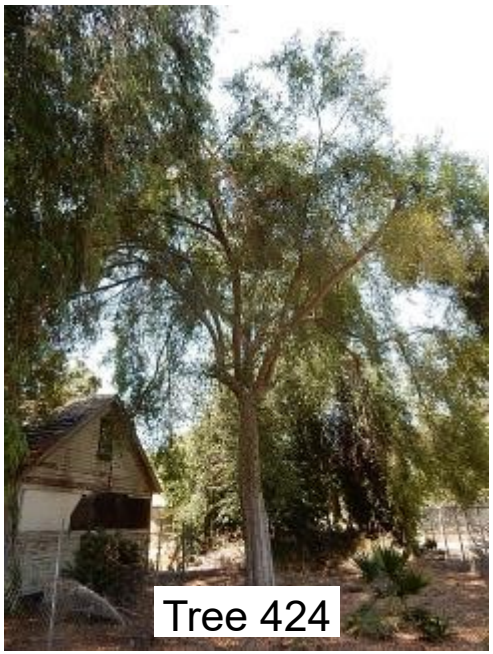

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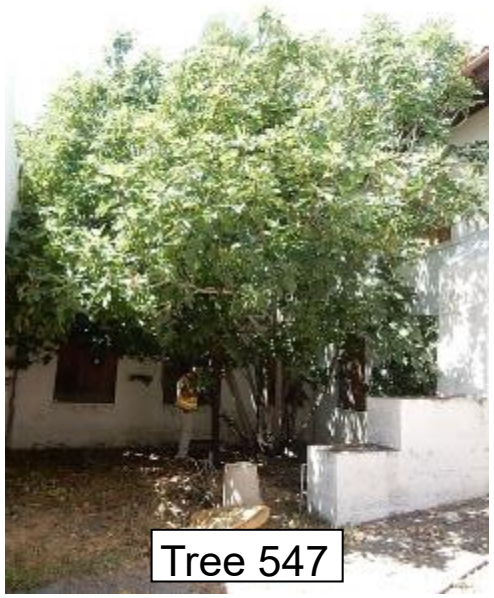

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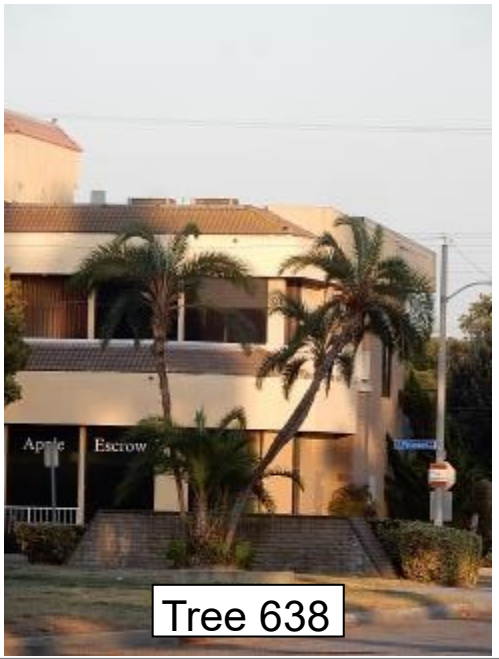

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APPENDIX D

Cultural Resources Documentation

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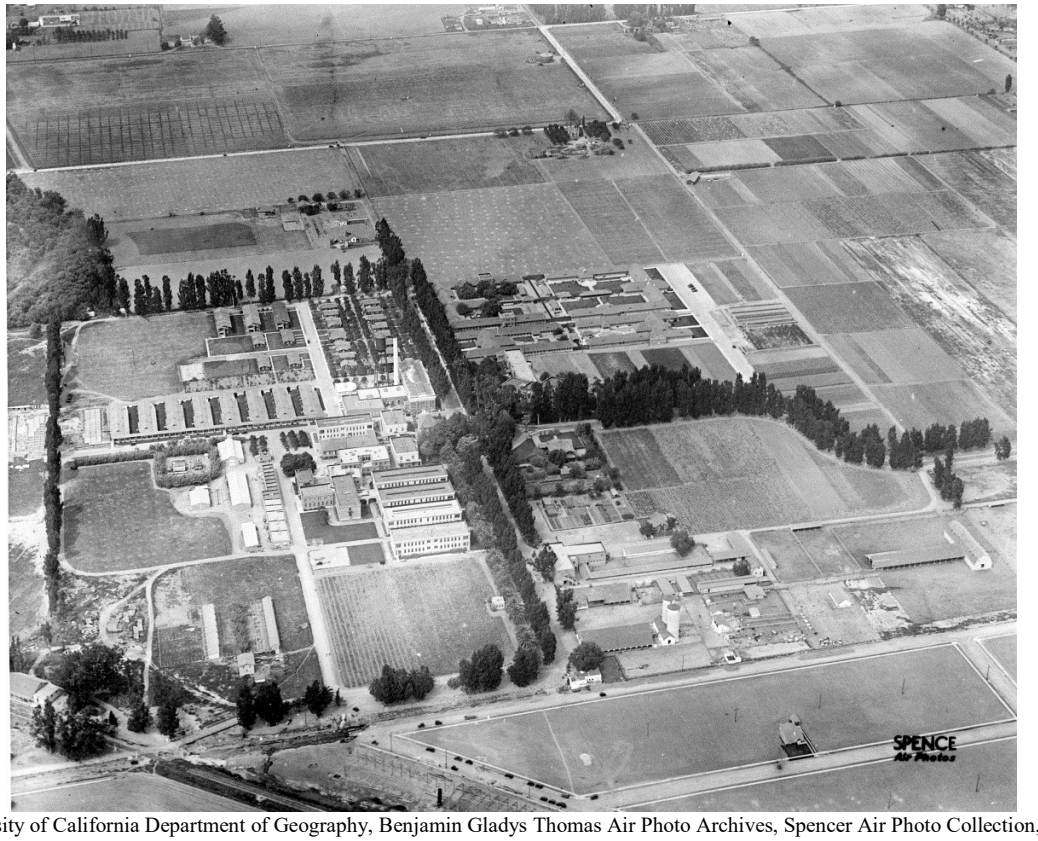
D-1 Rancho Los Amigos Historic District Analysis Report

RANCHO LOS AMIGOS SOUTH CAMPUS,COUNTY OF LOS ANGELES, CITY OF DOWNEY, CALIFORNIA

Historic District Evaluation Report

Prepared for
County of Los Angeles
Department of Public Works
900 South Fremont Avenue
Alhambra, CA 91803

June 2018



University of California Department of Geography, Benjamin Gladys Thomas Air Photo Archives, Spencer Air Photo Collection, 1926

RANCHO LOS AMIGOS SOUTH CAMPUS,COUNTY OF LOS ANGELES, CITY OF DOWNEY, CALIFORNIA

Historic District Evaluation Report

Prepared for:
County of Los Angeles
Department of Public Works
900 South Fremont Avenue
Alhambra, CA 91803

June 2018

Prepared by:
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626 Wilshire Blvd. Suite 1100
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Principal Investigator:
Margarita Jerabek, Ph.D.

Report Authors:
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Christian Taylor, M.H.P.
Adam Rajper, M.S.
Max Loder, M.A.

Project Location:
Downey, Los Angeles County

South Gate (CA) USGS 7.5-minute Topographic Quad
Township 3 South, Range 12 West, Unsectioned

Assessor Parcel Number: 6245-016-934

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EXECUTIVE SUMMARY

Rancho Los Amigos South Campus Historic District Evaluation Report

Environmental Science Associates (ESA) has been retained by the County of Los Angeles, Department of Public Works (County or DPW) to conduct a survey update and prepare an updated historic district evaluation report (Report) for the Rancho Los Amigos (RLA) South Campus (subject property). The 74-acre County-owned RLA South Campus is located in the south-westernmost part of the City of Downey (City) on Assessor Parcel Number (APN) 6245-016-934.

An archival records search that includes the subject property and a one-quarter-mile radius was conducted on June 13, 2017, at the California Historical Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC) housed at the California State University, Fullerton. Resource P-19-189330, the Rancho Los Amigos Historic District (District), located within the subject property, is the focus of this evaluation. The District includes facilities related to the County of Los Angeles Poor Farm established in 1888 and renamed the Los Angeles County Farm in 1915, and Rancho Los Amigos in 1932. The records search results also indicate that two historic architectural resources (P-19-186110 and P-19-189330) have been previously recorded within a one-quarter-mile radius of the subject property. Resource P-19-186110, adjacent to the subject property, is part of the first transcontinental railroad and was previously recommended eligible for the National Register of Historic Places (National Register) under Criteria A and B. The District has been previously recorded and documented in several historic resources surveys in 1995, 2004, and 2007-2011.

A. The District was originally recorded in 1995 by Historic Resources Group (HRG) during a survey of earthquake damaged properties by the Federal Emergency Management Agency (FEMA) after the 1994 Northridge Earthquake, in compliance with Section 106 of the National Historic Preservation Act of 1966 (NHPA) that requires Federal agencies to assess the effects of their undertakings on historic properties prior to the approval of expenditure of federal funds or to the issuance of any federal license or permit.[1] As a result of HRG's survey, the District was determined eligible for the National Register under Criterion A, for its association with events that have made a significant contribution to the broad patterns of history, through the Section 106 process, by a consensus among the County, FEMA, the California Office of Historic Preservation (OHP), and the Advisory Council for Historic Preservation (Advisory Council). With this determination of eligibility, the District was listed in the California Register of Historical Resources (California Register), under Criterion 1 for

[1] 36 CFR Section 800.1.

its association with events that have made a significant contribution to the broad patterns of our history, for its importance in the early healthcare of the County's indigent population, and later treatment of patients with chronic illnesses or mental disorders.[2] HRG recommended a period of significance of 1888 to 1945, documenting the District on Department of Parks and Recreation (DPR) forms. HRG's survey included documentation of 102 buildings, structures, and features within the boundaries of the District, of which 76 were identified as contributors. HRG did not identify any individually eligible resources in the District.

B. The District was resurveyed in 2004 by Post/Hazeltine Associates and recommended ineligible due to a lack of integrity.[3] However, Post/Hazeltine Associates identified 11 buildings and structures as individually eligible as distinctive examples of a type, period, or method of construction under National Register Criterion C and California Register Criterion 3: LACO Nos. 1100, 1101, 1177, 1178, 1238, 1261, 1262, 1263, 1300, 1301, and 1302.

C. The District was resurveyed again between 2007 and 2011 by Sapphos Environmental, Inc. (Sapphos), who concurred with HRG's original eligibility determination, but recommended that the period of significance be extended to 1952.[4] As of 2011, 68 contributors and 49 non-contributors had been identified as part of the District. Sapphos also recommended nine buildings and structures individually eligible for listing in the National Register under Criterion C and California Register under Criterion 3 for architectural distinction: LACO Nos. 1100, 1101, 1177, 1238, 1262, 1263, 1300, 1301, and 1302.

This Report presents the results of the historic resources survey update of the District conducted by ESA between June 19 and June 23, 2017. The District was resurveyed pursuant to Public Resources Code (PRC), Article 2, Section 5024.1(g)(4), which provides for the update of survey and re-evaluation of historical resources after five years to account for changed circumstances or further documentation. During the survey, 109 buildings, structures, and features within the District boundary were identified and documented. Although Sapphos previously surveyed 117 buildings, structures, and features, two have since been demolished and seven are located outside the District boundary.[5] In addition to the remaining 108 buildings, structures, and features within the District boundaries, ESA concluded that the landscape should be included as a contributing feature. These changes in condition were documented and incorporated into the ESA survey update. On June 26, 2017, shortly after completion of the District Survey, LACO Nos. 1101 and 1287 also suffered arson-related fire damage. On August 8, 2017, ESA conducted intensive pedestrian surveys of these buildings to document them after the fire damage and the results of these evaluations are also included in this Report.

Based upon extensive research and fieldwork, the existing District was found by ESA to continue to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. Furthermore, ESA found that the District meets Criterion 1 of the Los

2 Christy J. McAvoy, 1994 Northridge Earthquake Project Review, 1995

3 Post/Hazeltine Associates, Intensive Historic Structures/Site Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, prepared for The County Administrator's Office, Los Angeles County, California, 2004.

4 Sapphos Environmental, Inc., *Rancho Los Amigos Historic District: Update Report*, 2011.

5 LACO Nos. 3020 and 5393 have been demolished since Sapphos' survey of the District. Moreover, LACO Nos. 7704, 2637, 1991, 3591, as well two buildings associated with the Family Home, and an unnumbered Shed are located outside the District boundary and were not considered contributors.

Angeles County Historic Preservation Ordinance established in September of 2015. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth centuries, reflects broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district) and meets Los Angeles County Criterion 5 as a listed historical resource on the California Register, eligible for listing on the National Register. Concurrent with Sapphos' findings and based upon substantial evidence, the District's period of significance is 1888-1952, beginning with the Los Angeles County Poor Farm's opening and incorporating the full conversion and build-out of the health-care facilities, ending with the final sale and subdivision of the adjacent agricultural lands originally associated with the Poor Farm, marking the completion of the subject property's transformation into a long-term healthcare facility. Furthermore, it is recommended that the District's boundary be expanded near the southeast corner to include the portions of Consuelo Street, Bonita Street, and Dalia Avenue and the associated landscape areas east of the Administration Building (LACO No. 1100) that based upon survey and research documentation retain integrity and were originally a part of the facility during the period of significance.

The existing District appears to continue to meet the National Register and California Register integrity requirements, retaining its integrity of location, design, workmanship, materials, setting, feeling, and association. The District remains in its original location since it opened as a poor farm in 1888. Although the District no longer reflects its original design for the Poor Farm, as constructed in 1888, later changes to the subject property have acquired significance under National Register Criterion A, California Register Criterion 1, and Los Angeles County Criterion 1, for their association with the development of healthcare in Los Angeles County. Many of the buildings and features constructed during the period of significance (1888-1952) remain intact with few alterations. Of the 109 buildings, structures, and features identified within the District, there are 61 contributors, representing seven different building types and landscape features, that reflect the overall function of the subject property as it evolved into a long-term healthcare facility.

Sapphos previously identified nine individually eligible buildings and structures in the District. The historical significance of these buildings and structures is directly tied to the overall use of the subject property as a poor farm or a long-term healthcare facility. As such, these nine buildings and structures do not all exhibit individual historic significance and are not considered individually eligible for listing in the National Register or California Register under Criteria A/1, but they are considered to be District contributors. This updated evaluation identifies five of these buildings and structures as individually eligible under Criteria C/3 because they are distinctive examples of their type, period, and method of construction. These buildings and structures include: Administration/Safety Police Building (LACO No. 1100), Casa Consuelo (LACO No. 1238), and the grouping of the Power Plant (LACO No. 1300), Water Tower (LACO No. 1301), and Shop, Laundry and Ice Plant (LACO No. 1302). Additionally, the Moreton Bay Fig Tree appears individually eligible under Los Angeles County Criterion 6 as one of the oldest and largest of its species in the county and Criterion 7 as a significant feature of a neighborhood.

RANCHO LOS AMIGOS SOUTH CAMPUS

Historic District Evaluation Report

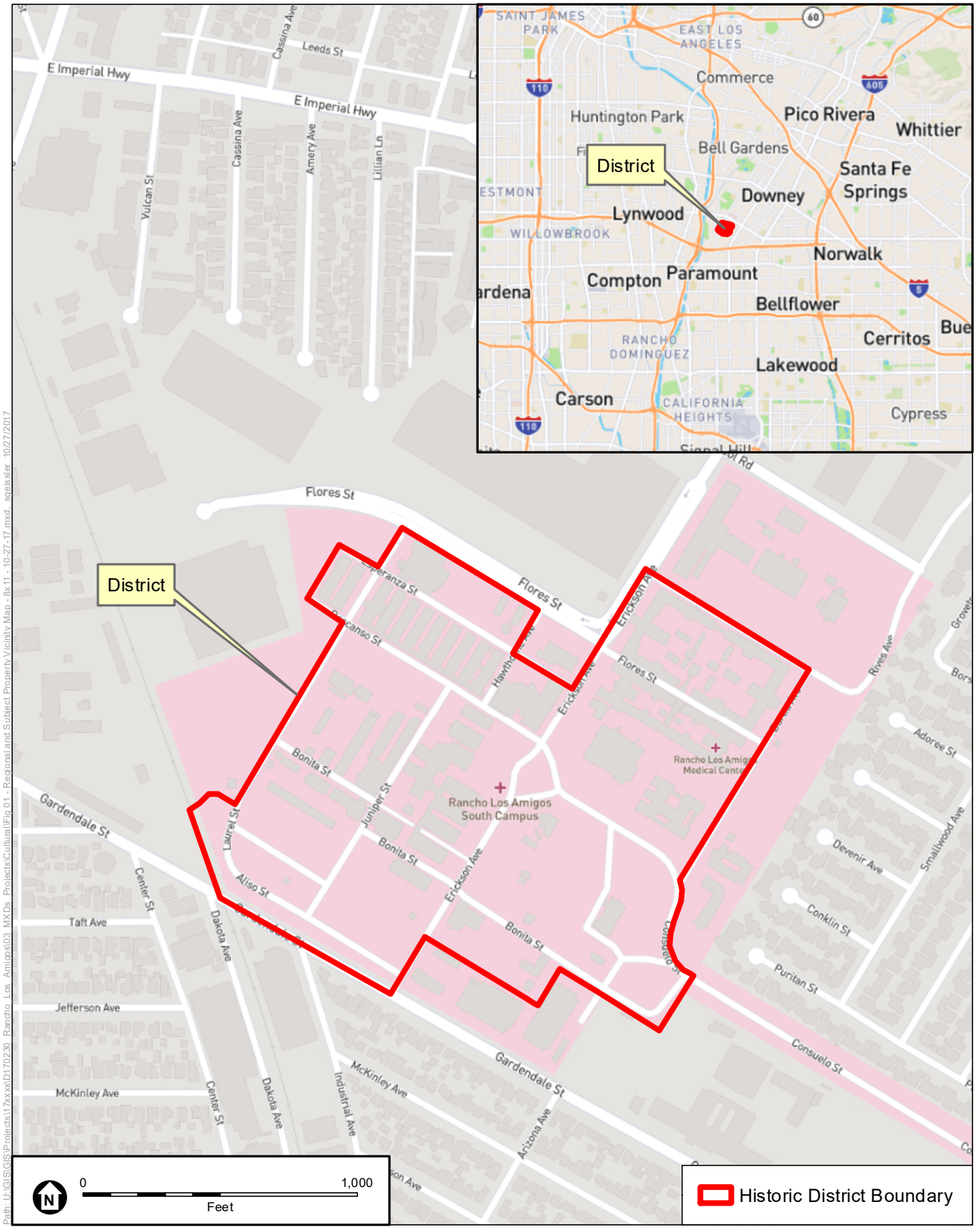
Introduction

Environmental Science Associates (ESA) has been retained by the County of Los Angeles, Department of Public Works ("County" or "DPW") to conduct an updated historic district survey and prepare a historic resources evaluation report (Report) for the Rancho Los Amigos (RLA) South Campus (subject property). The 74-acre RLA South Campus is located in the south-westernmost part of the City of Downey (City), California on Assessor Parcel Number (APN) 6245-016-934 (**Figure 1**). The subject property is situated north of Gardendale Street, south of Imperial Highway, east of Garfield Avenue, and west of Paramount Boulevard. Specifically, the subject property is located in an un-sectioned portion of Township 3 South, Range 12 West on the South Gate USGS 7.5-minute topographic quadrangle (**Figure 2**).

The subject property contains a historic district (District) that has been determined eligible for listing in the National Register of Historic Places (National Register) by consensus through the Section 106 process and is listed in the California Register of Historical Resources (California Register).[6] The District presently contains 109 buildings, structures, and features, including several hospital wards, infirmaries, residential units, an administration building, a power plant, and support buildings such as mechanical shops, kitchen and dining quarters, storage structures, laundry and toilet buildings, and a bathhouse. At present, the District is almost entirely unoccupied, with the exception of the County Office of Public Safety, which is housed in the former Administration/Safety Police Building (LACO No. 1100). The other buildings and structures have been vacant since approximately 1991 and are boarded up and in various stages of deterioration.

This Report includes the results of an updated historic resource survey and evaluation of the District, pursuant to Public Resources Code (PRC), Article 2, Section 5024.1(g)(4), which provides for the update of survey and re-evaluation of historical resources after five years to account for changed circumstances or further documentation. ESA personnel involved in the preparation of this report are as follows: Margarita Jerabek, Ph.D., Director of Historic Resources, who served as Principal Investigator; Amanda Kainer, M.S., Senior Architectural Historian, who acted as technical team lead and is a co-author; Adam Rajper, M.S., and Christian Taylor, M.H.P, who served as project architectural historians and are co-authors; and Max Loder, M.A, who served as supporting project historian and is a contributing author.

6 California historical resources listed in, or formally determined eligible for, the National Register are automatically listed in the California Register, pursuant to California Public Resources Code Section 5024.1(d)(1). "Formally determined eligible" for the purpose of this section means determined eligible through one of the federal preservation programs administered by the California Office of Historic Preservation. Specifically, these programs are the National Register, Tax Certification (Evaluation of Significance, Part 1, 36 CFR Part 67), and National Historic Preservation Act (Section 106, 16 U.S.C. 470f) reviews of federal undertakings.



SOURCE: Open Street Map, 2017.

Figure 1
Regional and Subject Property Vicinity Map

ESA



SOURCE: NAIP, 2016 (Aerial).

Rancho Los Amigos South Campus

Figure 2
Aerial Photograph of Subject Property and Vicinity

ESA

All staff meet or exceed the Secretary of the Interior's professional qualification standards for architectural history or history. Addie Farrell, Monica Strauss, M.A., Director of Cultural Resources, and Candace Ehringer, M.A., served as project managers. Jason Nielson, Stephan Geissler, and Jessie Lee provided GIS support. Resumes of key personnel are included in **Appendix A**.

Regulatory Framework

Numerous laws and regulations require federal, state, and local agencies to consider the effects a project may have on cultural resources. These laws and regulations stipulate a process for compliance, define the responsibilities of the various agencies proposing the action, and prescribe the relationship among other involved agencies.

Federal

National Historic Preservation Act

Cultural resources fall within the jurisdiction of several levels of government. Federal laws provide the framework for the identification, and in certain instances, protection of cultural resources. Additionally, states and local jurisdictions play active roles in the identification, documentation, and protection of such resources within their communities. The National Historic Preservation Act (NHPA) of 1966, as amended, and the California Public Resources Code (PRC), Section 5024.1, are the primary federal and state laws and regulations governing the evaluation and significance of cultural resources of national, state, regional, and local importance. Descriptions of these relevant laws and regulations are presented below.

National Register of Historic Places

The National Register was established by the NHPA of 1966, as "an authoritative guide to be used by federal, State, and local governments, private groups and citizens to identify the Nation's historic resources and to indicate what properties should be considered for protection from destruction or impairment."[7] The National Register recognizes a broad range of cultural resources that are significant at the national, state, and local levels and can include districts, buildings, structures, objects, prehistoric archaeological sites, historic-period archaeological sites, traditional cultural properties, and cultural landscapes.

To be eligible for listing in the National Register, a property must be significant in American history, architecture, archaeology, engineering, or culture. Properties of potential significance must meet one or more of the following four established criteria:

A. Are associated with events that have made a significant contribution to the broad patterns of our history;

B. Are associated with the lives of persons significant in our past;

7 36 CFR Section 60.2.

C. Embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. Have yielded, or may be likely to yield, information important in prehistory or history.

Ordinarily religious properties, moved properties, birthplaces or graves, cemeteries, reconstructed properties, commemorative properties, and properties that have achieved significance within the past 50 years are not considered eligible for the National Register unless they meet one of the Criteria Considerations (A-G), in addition to meeting at least one of the four significance criteria and possessing integrity.[8]

In addition to meeting one or more of the criteria of significance, a property must have integrity. Integrity is defined as "the ability of a property to convey its significance."[9] The National Register recognizes seven qualities that, in various combinations, define integrity:

- *Location* is the place where the historic property was constructed or the place where the historic event occurred. The relationship between the property and its location is often important to understanding why the property was created or why something happened. The actual location of a historic property, complemented by its setting, is particularly important in recapturing the sense of historic events and persons. Except in rare cases, the relationship between a property and its historic associations is destroyed if the property is moved.

- *Design* is the combination of elements that create the form, plan, space, structure, and style of a property. It results from conscious decisions made during the original conception and planning of a property (or its significant alteration) and applies to activities as diverse as community planning, engineering, architecture, and landscape architecture. Design includes such elements as organization of space, proportion, scale, technology, ornamentation, and materials. A property's design reflects historic functions and technologies as well as aesthetics. It includes such considerations as the structural system; massing; arrangement of spaces; pattern of fenestration; textures and colors of surface materials; type, amount and style of ornamental detailing; and arrangement and type of plantings in a designed landscape.

- *Setting* is the physical environment of a historic property. Whereas location refers to the specific place where a property was built or an event occurred, setting refers to the *character* of the place in which the property played its historic role. It involves *how*, not just where, the property is situated and its relationship to surrounding features and open space.

- *Workmanship* is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. It is the evidence of artisans' labor and skill in constructing or altering a building, structure, object, or site. Workmanship can apply to the property as a whole or to its individual components.

- *Materials* are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property. The choice and combination of materials reveal the preferences of those who created the property

8 National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 44-45, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed October 3, 2017.

9 National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 44-45, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed October 3, 2017.

and indicate the availability of particular types of materials and technologies. A property must retain key exterior materials dating from the period of its historic significance.

- *Feeling* is a property's expression of the aesthetic or historic sense of a particular period of time. It results from the presence of physical features that, taken together, convey the property's historic character.

- *Association* is the direct link between an important historic event or person and a historic property. A property retains association if it *is* the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer.

To retain historic integrity, a property will always possess most of the aspects and depending upon its significance, retention of specific aspects of integrity may be paramount for a property to convey its significance. Determining which of these aspects are most important to a particular property requires knowing why, where and when a property is significant. For properties that are considered significant under National Register Criteria A and B, *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation (National Register Bulletin 15)* explains, "a property that is significant for its historic association is eligible if it retains the essential physical features that made up its character or appearance during the period of its association with the important event, historical pattern, or person(s)." In assessing the integrity of properties that are considered significant under National Register Criterion C, *National Register Bulletin 15* states, "a property important for illustrating a particular architectural style or construction technique must retain most of the physical features that constitute that style or technique."[10]

State

California Environmental Quality Act

CEQA is the principal statute governing environmental review of projects occurring in the state and is codified at PRC Section 21000 et seq. CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on historical resources. Under CEQA Section 21084.1, a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

The CEQA Guidelines recognize that historical resources include: (1) a resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register; (2) a resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g); and (3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California by the lead agency, provided the lead agency's

[10] National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 44-45, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed October 3, 2017.

determination is supported by substantial evidence in light of the whole record.[11] The fact that a resource does not meet the three criteria outlined above does not preclude the lead agency from determining that the resource may be an historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

A significant effect under CEQA would occur if a project results in a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5(a). Substantial adverse change is defined as "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired."[12] According to CEQA Guidelines Section 15064.5(b)(2), the significance of a historical resource is materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics that:

A. Convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or

B. Account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in a historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

C. Convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a Lead Agency for purposes of CEQA.

In general, a project that complies with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings (Standards) is considered to have mitigated its impacts to historical resources to a less-than-significant level.[13]

California Register of Historical Resources

The California Register is "an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change."[14] The criteria for eligibility for the California Register are based upon National Register criteria.[15] Certain resources are determined by the statute to be automatically included in the California Register, including California properties formally determined eligible for, or listed in, the National Register.

11 Title 14 California Code of Regulations Section 15064.5
12 CEQA Guidelines Section 15064.5(b)(1)
13 CEQA Guidelines Section 15064.5(b)(3)
14 PRC Section 5024.1[a]
15 PRC Section 5024.1[b]

To be eligible for the California Register, a prehistoric or historic-period property must be significant at the local, state, and/or federal level under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

A resource eligible for the California Register must meet one of the criteria of significance described above, and retain enough of its historic character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. It is possible that a historic resource may not retain sufficient integrity to meet the criteria for listing in the National Register, but it may still be eligible for listing in the California Register.

Additionally, the California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally determined eligible for the National Register;
- California Registered Historical Landmarks from No. 770 onward; and
- Those California Points of Historical Interest that have been evaluated by the OHP and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources that may be nominated to the California Register include:

- Historical resources with a significance rating of Category 3 through 5 (those properties identified as eligible for listing in the National Register, the California Register, and/or a local jurisdiction register);
- Individual historical resources;
- Historical resources contributing to historic districts; and,
- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone.

Local

Los Angeles County Historic Preservation Ordinance

The Los Angeles County Board of Supervisors adopted the County's Historic Preservation Ordinance (HPO) on September 1, 2015.[16] The HPO establishes criteria for designating landmarks and historic districts and provides protective measures for designated and eligible historic resources. The HPO applies to all privately owned property within the unincorporated

[16] Los Angeles County Historic Preservation Ordinance, Ord. 2015-0033 § 3, 2015.

territory of the County and all publicly owned landmarks, except properties that were not listed prior to the issuance of a demolition permit or properties affiliated with religious organizations. The HPO defines a landmark as "any property, including any structure, site, place, object, tree, landscape, or natural feature, that is designated as a landmark by the Board of Supervisors." The HPO defines a historic district as, "A contiguous or noncontiguous geographic area containing one or more contributing properties which has been designated as an historic district by the Board of Supervisors." Landmarks and historic districts may be designated if it is fifty years of age and meets one of the following criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, State, County, or community in which it is located;
2. It is associated with the lives of persons who are significant in the history of the nation, State, County, or community in which it is located;
3. It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, State, County, or community in which it is located; or possesses artistic values of significance to the nation, State, County, or community in which it is located;
4. It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, State, County, or community in which it is located;
5. It is listed, or has been formally determined eligible by the United States National Park Service for listing, in the National Register of Historic Places, or is listed, or has been formally determined eligible by the State Historical Resources Commission for listing, on the California Register of Historical Resources;
6. If it is a tree, it is one of the largest or oldest trees of the species located in the County; or
7. If it is a tree, landscape, or other natural land feature, it has historical significance due to an association with an historic event, person, site, street, or structure, or because it is a defining or significant outstanding feature of a neighborhood.

Historic Districts

A property less than 50 years of age may be designated as a landmark if it meets one or more of the criteria and exhibits exceptional importance.

A geographic area, including a noncontiguous grouping of related properties, may be designated as an historic district if all of the following requirements are met:

1. More than 50 percent of owners in the proposed district consent to the designation;
2. The proposed district satisfies one or more of criteria 1 through 5; and
3. The proposed district exhibits either a concentration of historic, scenic, or sites containing common character-defining features, which contribute to each other and are unified aesthetically by plan, physical development, or architectural quality; or significant geographical patterns, associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of parks or community planning.

County of Los Angeles General Plan

The Conservation and Natural Resources Element (the Element) of the County's General Plan indicates that "Historic, cultural, and paleontological resources are an important part of Los Angeles County's identity" (Los Angeles County General Plan, 2015:163). The Element provides the following goal and policies for the treatment of historic resources:

Goal C/NR 14: Protected historic, cultural, and paleontological resources.

Policy C/NR 14.1: Mitigate all impacts from new development on or adjacent to historic, cultural, and paleontological resources to the greatest extent feasible.

Policy C/NR 14.2: Support an inter-jurisdictional collaborative system that protects and enhances historic, cultural, and paleontological resources.

Policy C/NR 14.3: Support the preservation and rehabilitation of historic buildings.

Policy C/NR 14.5: Promote public awareness of historic, cultural, and paleontological resources.

Policy C/NR 14.6: Ensure proper notification and recovery processes are carried out for development on or near historic, cultural, and paleontological resources.

Historic Context

This thematic historic context presents the history of the region and the subject property, and was developed to document and support the identification and evaluation of historic architectural resources. Research indicates the property is associated with the following historical and architectural themes: Advancements in Public Health and Medical Care (1870-1920); Caring for the Poor and Sick in California (1850-1930); Settlement of Downey (1784-1956); Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952); and Early Hospital Architecture (1880-1930). Key events related to these historic themes, as well as the subject property, are identified in a timeline which is included in **Appendix B**. Additionally, as part of this study, contexts were developed for the identified architectural styles of existing buildings on the subject property and the architects responsible for designing the buildings.

Advancements in Public Health and Medical Care (1830-1920)

The history of Rancho Los Amigos reflects changes brought about by broad advancements in Public Health and Medical Care during an important period of social change and scientific progress. The rapid industrialization of nations during the eighteenth and nineteenth centuries resulted in the consolidation of labor sources to central locations. People seeking work moved from the agricultural fields to the cities where new factories were sprouting up. Industrial development brought significant urban growth and with the increasing population came unsanitary conditions and disease. In 1831 and 1832, a cholera epidemic in England strengthened the need for sanitary reform and disease prevention. The nineteenth century was known as a period of great epidemics. "On four occasions during the nineteenth century, Europe and America

were scourged by severe invasions of Asiatic cholera resulting from world pandemics."[17] England's implementation of public health programs was derived from earlier solutions to its poverty problem. "Each parish was responsible for the maintenance of its own poor and consequently attempted to reduce this burden as far as possible."[18] A similar concept was replicated by the State of California in the 1850s, which assigned the burden of the poor and the sick upon the county governments. Evidence of this approach to caring for the poor and sick is seen locally with the opening of the Los Angeles County Poor Farm in 1888 on the subject property.

Throughout the nineteenth century, physicians in the United States found themselves closing the gap with their European counterparts in terms of medical research. "… the Americans overtook the English in the 1880s, the French in the 1890s, and the Germans in the 1910s. By 1920 they led the world in medical research."[19] However, developments in clinical medicine (diagnosis and treatment of disease) did not reflect the same pattern of development as the basic medical sciences. "Although Americans admired the superior clinical facilities of Europe, they commonly believed that singular circumstances in the United States demanded uniquely American responses to disease and made European knowledge suspect and in certain respects irrelevant."[20] In the United States, ideas of diagnosis and treatment developed based on a localized approach, piecing together natural historical assessments including meteorological, epidemiological, and therapeutic observations. By the early 1870s, these beliefs would be confronted by medical researchers advocating for a laboratory based approach to studying therapy and treatment. The early twentieth century marked a transition in medical research advocating more long-term care. "By 1904 only 27.8 percent of the total patient population for the U.S. had been institutionalized for 12 months or less. Within six years this percentage had fallen to 12.7, although rising to 17.4 in 1923. The greatest change, however, came among patients hospitalized for five years or more. In 1904, 39.2 percent of patients fell into this category; in 1910 and 1923 the respective percentages were 52 and 54."[21] Evidence of this transition in therapy and treatment is seen locally in the transformation of the Los Angeles County Poor Farm into a long-term care medical facility during the first and second quarters of the twentieth century. Despite this clash of ideology, the belief that one's environment played a significant role in their recovery would be a driving force in the settlement of California, making Los Angeles the epicenter for studies in medical climatology at a time when these kinds of studies were playing a significant role in American medical research, and the healthful benefits of Southern California's Mediterranean climate was an important consideration in the location and design of state and county sanitariums and hospitals.

17 George Rosen, *A History of Public Health,* (Baltimore: Johns Hopkins University Press, 2015), 157.

18 Rosen, *A History of Public Health*, 107.

19 Ronald L. Numbers and John Harley Warner, "The Maturation of American Medical Science," in *Sickness and Health in America: Readings in the History of Medicine and Public Health*, Edited by Judith Walzer Leavitt & Ronald L. Numbers, Madison: University of Wisconsin Press, 1997, 130.

20 Ronald L. Numbers and John Harley Warner, "The Maturation of American Medical Science," in *Sickness and Health in America: Readings in the History of Medicine and Public Health*, Edited by Judith Walzer Leavitt & Ronald L. Numbers, Madison: University of Wisconsin Press, 1997, 135.

21 Gerald N. Grob, "The Severely and Chronically Mentally Ill in America: Retrospect and Prospect," in *Sickness and Health in America: Readings in the History of Medicine and Public Health*, Edited by Judith Walzer Leavitt & Ronald L. Numbers, Madison: University of Wisconsin Press, 1997, 334.

Caring for the Poor and Sick in California (1850-1930)

One of the earliest examples of health-related migration in California occurred in 1826 when Governor José Echeandía moved the State capitol from Monterey to San Diego, hoping the warm, dry climate would improve his health. By 1849, the perceived health benefits of California's climate were becoming widespread knowledge. Although the Gold Rush drew many Americans to the region, not all where simply seeking a fortune in gold. A small portion of would-be gold miners were also seeking the health benefits of the California climate they had heard so much about. "A group of them had fled the great Mississippi Valley cholera epidemic of 1848-49 only to find that it had arrived in the diggings before them."[22] California's reputation as a place of healing would grow rapidly over the late nineteenth century. In 1869, J.D.B. Stillman, editor of the *California Medical Gazette,* suggested the formation of a group to study the health benefits of southern California's climate.[23] Many of those who traveled to California to study its climate were invalids themselves and therefore their work tended to be biased toward promoting a positive image of the healing properties of the mild, warm climate. "Their literary products, though both copious and sincere, oversimplified situations and sinned on the side of enthusiasm."[24] The tales of the California climate's health benefits were further exaggerated by the railroad industry seeking to sell property it acquired when the transcontinental railroad was completed in 1869.

The completion of the transcontinental railroad connected Los Angeles to the rest of the nation, resulting in a large population boom. Many of the new residents brought with them their ailments in hopes that the warm California weather would cure them. At that time, the problematic incurable diseases were leprosy and tuberculosis. However, tuberculosis was the main concern with only a handful of leprosy cases in the state. In Los Angeles, community leaders expressed concern that the city's hotel owners lacked the necessary amenities to attract health seekers. "Hotel builders should watch the sun to determine at what hour it shone in the certain directions and then construct their rooms accordingly. Flues should be used instead of pipes. In conclusion, the newspaper advised, 'publish these facts—fire and sunshine in all the rooms of the house—and every steamer will bring you guests; you cannot drive them away."[25] To compete with growing neighboring communities, Los Angeles sought to improve its sanitary facilities, resulting in the establishment of multiple sanitariums throughout the region during the late nineteenth and early twentieth centuries.

Many of the early sanitariums in Los Angeles were private enterprises and often failed to maintain a level of sanitation necessary to provide adequate lodging for their sick patrons. As medical professionals began to better understand the contagious nature of these illnesses, especially tuberculosis, the movement for state and county operated sanitariums gained momentum. The State Board of Health established a committee to determine a suitable location for a state-run sanitarium. The Board of Health decided on a location in northern California citing

22 John E. Baur, *The Health Seekers of Southern California,* Huntington Library, San Marino CA, 1959, 3.
23 Baur, *The Health Seekers of Southern California,* 4.
24 Baur, *The Health Seekers of Southern California,* 5.
25 Baur, *The Health Seekers of Southern California*, 36.

that "transportation facilities of southern California at the beginning of the eighties (1880s) were comparatively primitive."[26] The decision was disappointing for Los Angeles, which had been advocating for state assistance with its indigent population as far back as 1869. The Los Angeles County Hospital was founded in 1878 and was first affiliated with the University of Southern California (USC) Medical School in 1885, five years after USC was founded.[27] A second state hospital was constructed in San Bernardino County in 1890, temporarily relieving the strain placed upon the county hospitals due to the growing indigent population throughout the region.

The Almshouse

Another source of relief for many county hospitals was the county almshouse, also known as the poorhouse or in some cases the poor farm. The Los Angeles County Poor Farm's opening (1888) and ending with the complete transformation of the site into a long-term care medical facility is part of a much larger context. The institution of the almshouse extends back to British Colonies, more than a hundred years before the American Revolution. "Although the poorhouses, workhouses, and poor farms lasted from 1660 to the 1960s, their most predominant role was between (1830-1940) the third decade of the nineteenth century and the forth decade of the twentieth century."[28] England's poor law reform in 1834 was a focal point for social change in western civilization. In the United States, state and local governments passed similar laws placing the burden of the poor on local governments. In 1850, the State of California's legislature enacted requirements that county governments should perform all acts necessary to the county welfare. This decision eventually led to the California "Poor Law of 1855," which made the care of the aged and needy the responsibility of local governments.

Laws passed throughout the states resulted in the expansion of almshouses to provide for their indigent populations. The early patrons of the Almshouse were often referred to as inmates, employing the simplest definition of the word as "a group occupying a single place of residence."[29] Many of the almshouses added farms to help provide food to the inmate population. "In some instances, superintendents who were both good managers and good farmers ran productive farms that grew a large share of the inmates' food."[30] The inmates were expected to work on the farm as it was strongly believed that hard work would help improve their health. Poor farms struggled on the east coast because many of the able bodied inmates would leave for paying jobs on other farms during the more productive summer months, while relying on the poor farm for lodging during the rough winter months. While poor farms in the eastern United States struggled due to varying conditions throughout the year, poor farms in California experienced year round success due to the moderate climate. The successes reduced the overall cost to operate the institutions by providing food for the inmates. "The 1890s were turning point both in terms of

26 Baur, *The Health Seekers of Southern California*, 157.

27 LAC + USC Medical Center, About Us, Los Angeles County Health Services website, www.dhs.lacounty.gov/wps/portal/dhs/lacusc/, accessed September 27, 2017.

28 David Wagner, *The Poorhouse: America's Forgotten Institution,* (Lanham: Rowman & Littlefield Publishers, 2005), 132.

29 "Inmate." Merriam-Webster.com, Merriam-Webster, www.merriam-webster.com/dictionary/inmate. Accessed 12 Feb. 2018.

30 Michael B. Katz, *In the Shadow of the Poorhouse: A Social History of Welfare in America*, (New York: Basic Books, Inc. 1986).

numbers of inmates (the poorhouses were often quite a bit smaller before this) and in terms of reform of the physical structures and organizational forms of the poorhouse, in that charges of squalor and disrepair of many of the homes were no longer generally characteristic."[31] However, the public still viewed almshouses in a negative light despite the improved conditions and reduced costs.

Taxpayers began to question the use of government funds to provide for those they believed undeserving, most of which were immigrants. These feelings were exacerbated by economic decline during the 1890s, which strained the finances of most Americans. Local governments attempted to rename the almshouses to "county home" in the hopes of combating the negative reputation of the institution. Changes in terminology included phasing out the use of "inmate" to describe patients. The Los Angeles County Poor Farm began referring to its residents as patients as early as 1908.[32] "Although some citizens considered these terms euphemisms as well, they did mark an important turn toward the transition of most poorhouses into hospitals and old age, boarding, nursing homes by the post-World War II period."[33] While economic decline in the 1890s led to the institutions growth, it would be another economic decline that would lead to the demise of the almshouse. The New Deal reforms resulting from the Great Depression in the 1930s reduced the need for almshouses. By this time, many of the institutions had already started to transition into long-term healthcare facilities.

Settlement of Downey (1784-1956)

The first European presence in California came in 1542, when Juan Rodriguez Cabrillo led an expedition along the coast. Europeans did not return until 1769, when the expedition of Gaspar de Portola traveled overland from San Diego to San Francisco. In the late 18th century, the Spanish began establishing missions in California and forcibly relocating and converting native peoples to Catholicism. Founded by Franciscans in 1771, Mission San Gabriel Arcángel established a Spanish presence in the Los Angeles area.[34] The mission was soon followed by the settlement of El Pueblo de Nuestra Señora la Reina de Los Ángeles in 1781. As the pueblo continued to grow, the Spanish Government began a land grant program awarding large tracts of land called ranchos to Spanish soldiers who helped settle the region.[35] From the ranchos, some of the most prominent families in the region developed. The boundaries of these ranchos would be the main division of land throughout the Los Angeles area through the Spanish, Mexican, and early American periods.

The region that would eventually develop into the community of Downey was once part of Rancho Los Nietos. The property, one of the first and largest Spanish ranchos occupying 300,000

31 Wagner, *The Poorhouse,*13.

32 Fliedner, Centennial, 68.

33 Wagner, *The Poorhouse,* 6.

34 Chris Perez, "Grants of Land in California Made by Spanish or Mexican Authorities," Prepared by the State Lands Commission, Boundary Investigation Unit, August 23, 1982.

35 Perez, "Grants of Land in California Made by Spanish or Mexican Authorities."

acres, was awarded to José Manuel Nieto in 1784.[36] "Other provisions of the grant were that a stone house be built; that the land be stocked with at least 2,000 head of cattle and supervision be provided to prevent the stock from wandering."[37] Nieto died in 1804, leaving the property to his four children who continued to manage the rancho. In 1821, Mexico was granted independence from Spain after a successful revolution. Despite the changing government, Rancho Los Nietos remained the property of the Nieto family. In 1833, Nieto's heirs petitioned the Mexican government to partition the property. "The heirs undoubtedly wanted reconfirmation of the grant by the authorities in Mexico as well as individual titles to portions of the land."[38] In 1834, the division of Rancho Los Nietos into six smaller properties was approved by the Mexican government, resulting in the formation of Rancho Santa Gerdtrudes.

Rancho Santa Gertrudes was awarded to the widow of Nieto's son Antonio, Josefa Cota Nieto. Josefa sold the rancho to an Anglo named Lemuel Carpenter in 1834. Carpenter had been living on the property where he made soap and eventually married into the Nieto family. "He spent and additional $5,000 in making the estate a show-place for gracious, but costly living. He raced fast horses. He took a hand in cards. He involved himself in the turmoil of California politics."[39] Carpenter's ownership of the rancho survived the aftermath of the Mexican-American War following the Treaty of Guadalupe Hidalgo in 1848, which resulted in the cessation of California to the United States. New American settlers soon flooded the territory seeking wealth after the discovery of gold. With them came wealthy investors and the concept of credit. Using his land as collateral, Carpenter drifted deep into debt in an attempt to maintain his lavish lifestyle. In 1859, Rancho Santa Gertrudes was auctioned to repay Carpenter's creditors. "The buyers of Rancho Santa Gertrudes were John Gately Downey and James McFarland."[40]

John Gately Downey arrived in the Los Angeles area in 1850, where he established a drug store with his partner Dr. James P. McFarland. The store was an instant success, netting Downey $30,000 in three years.[41] Both McFarland and Downey would play a vital role in Los Angeles' health care industry. In 1855, Downey and Abel Stearns, another of Los Angeles' wealthy land owners and Anglo pioneers, helped establish the city's first hospital with the aid of the Sisters of Charity of St. Vincent de Paul.[42] Downey would go on to become the first elected governor of California in 1860. The purchase of Rancho Santa Gertrudes in 1859 began Downey's foray into the soon-to-be booming real estate market. By 1866, he was advertising the property as "The best land for homesteads and vineyards in this section of the states."[43] He was selling lots for $10an acre. "In 1873, a 96-acre parcel of Rancho Santa Gertrudes became the central district of a

36 Charles Russell Quinn, *History of Downey: The Life Story of a Pioneer Community, and of the Man who Founded it California Governor John Gately Downey—From Covered Wagon to the Space Shuttle* (Downey: Elena Quinn, 1973).

37 Charles Russell Quinn, *History of Downey*.

38 Charles Russell Quinn, *History of Downey*.

39 Charles Russell Quinn, *History of Downey*.

40 Charles Russell Quinn, *History of Downey*.

41 Charles Russell Quinn, *History of Downey*.

42 Charles Russell Quinn, *History of Downey*.

43 Charles Russell Quinn, *History of Downey*.

community called 'Downey City'."[44] The city of Downey began to take shape as the railroad arrived in 1874, constructing a station in the Santa Gertrudes area. Merchants soon followed, establishing a commercial district. "As might be expected in a community of potential, the first business to be established was a lumber company."[45] However, the city would not become formally incorporated until 1956.[46]

Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)

Research results indicate that the period of significance for the subject property is 1888 to 1952, beginning with the Los Angeles County Poor Farm's opening (1888) and ending with the complete transformation of the site into a long-term care medical facility, and the subdivision and sale of its former agricultural lands east of Dahlia Avenue and north of Consuelo Street (1952) for a residential neighborhood. The period can be further divided into three eras, including the early Los Angeles County Poor Farm Era (1888-1906), Development of Rancho Los Amigos (1907-1932), and the Establishment of the Long Term Care Facility (1933-1952). These eras relate to the subject property's pattern of development during the period of significance.

Los Angeles County Poor Farm (1887-1906)

Prior to the Poor Farm's construction, care of the County's indigent population was the responsibility of the County Hospital. The first hospital in Los Angeles County was established in 1858 by the Sisters of Charity, who were contracted by the County to take care of the poor and the sick.[47] In 1860, there was legislation that extended the services of the county hospitals to include care for anyone who was unable to care for themselves (indigent) in addition to the sick. This led to overcrowding at the County Hospital by 1869, prompting the Board of Supervisors to build a new hospital. The new hospital grounds included nine acres of orange groves, pepper trees, and walnut trees. The arrival of the first railroad into Southern California, the Southern Pacific Railroad, resulted in a significant population boom throughout Los Angeles County in 1876. The County Hospital was outgrown by the rapidly expanding population once again. In 1887, the Los Angeles County Board of Supervisors agreed to purchase approximately 124 acres of undeveloped property (including the subject property) near the community of Downey, California. "L. M. Grider, Francis M. Matthew and W. C. Smith, appointed to appraise the land of A. W. Ryan, which the board propose to purchase for a poor farm, reported its value at $100 per acre. The purchase of the Poor Farm cost the county approximately $35,000, which was paid for by the subdivision and sale of agricultural land surrounding the County Hospital.[48] The new Poor

44 "City of Downey: History." City of Downey - History, www.downeyca.org/about/history/. Accessed September 11, 2017.

45 Charles Russell Quinn, History of Downey.

46 "City of Downey: History." City of Downey - History, www.downeyca.org/about/history/. Accessed September 11, 2017.

47 Colleen Adair Fliedner, *Centennial: Rancho Los Amigos Medical Center, 1888-1988*, Rancho Los Amigos Medical Center, 1990, 10.

48 "The Poor Farm," *Los Angeles Herald* (Los Angeles, California), August 29, 1888.

Farm would relieve the County Hospital's overcrowded patient wards by admitting the hospital's more able-bodied patients.[49]

By August of 1888, a well and windmill had been constructed on the property, as well as a barn. "In a few weeks, at the most, the inmates of the present County Hospital will be transferred to their new quarters out in the sunlight and healthful country between the two branches of the San Gabriel."[50] Los Angeles County Supervisor J. W. Venable claimed three additional buildings designed by Kysor, Morgan, and Walls would be completed within 90 days. Architect Octavius Morgan described the buildings under construction as "45x75, of brick, two stories high, and will be very plain, but they will have all the modern conveniences and will accommodate about 200 patients."[51] While additional buildings had been designed, they would only be constructed as needed. The Poor Farm's agricultural lands included orchards, vineyards, and a poultry yard intended to keep the inmates active. In addition to providing activities for the inmates, the agricultural fields allowed for the potential of self-sustainability, which would dramatically reduce the economic burden caused by the indigent upon the County. Supervisor Venable estimated the cost to support each inmate would be reduced by half and the returns from the farm's produce would further decrease costs.[52]

The first superintendent of the County Poor Farm was B.V. Dougall, whose brief term at the institution ended with consternation.[53] However, despite his protests, Dougall vacated the office of superintendent after having served less than a year. In February of 1889, the Board of Supervisors appointed Dr. Edwin L. Burdick to the newly created post of Physician and General Superintendent. "He is equally at home among the big bottles and vials in the laboratory of the farm or out among the hogs and horses and in the Orange grove."[54] Dr. Burdick moved into the second floor of the Office Building (not extant) with his wife and son where they would reside throughout his tenure with the institution. The Poor Farm would grow significantly during Burdick's term, adding forty acres to the property in 1892 and an additional 30 acres purchased from Laura B. Smith and Andrew Glassell in 1897, increasing the total area of the property to approximately 180 acres.[55]

The Poor Farm quickly became an example for other neighboring counties seeking solutions to their growing indigent populations. "The county poor farm is a model institution in every way. Ably managed and admirably situated, it commands respect of the entire counties of the state, in none of which is it surpassed."[56] While the Poor Farm was praised by many, it was not without its detractors. However, the criticisms were a symptom of larger concerns regarding taxes circulating among Los Angeles County's citizenry. "The county hospital and the county poor farm furnish

49 Fliedner, Centennial, 17.

50 "The Poor Farm," *Los Angeles Herald* (Los Angeles, California), June 23, 1888.

51 "For Indigents," *Los Angeles Herald* (Los Angeles, California), August 5, 1888.

52 "The Poor Farm," *Los Angeles Herald* (Los Angeles, California), August 29, 1888.

53 "Unwillingly Relieved," *Los Angeles Herald,* January 24, 1889.

54 "The County Farm," *Los Angeles Times*, September 24, 1895.

55 "Homes of Unfortunates," *Los Angeles Herald*, June 14, 1892. "Board of Supervisors," *Los Angeles Herald*, November 4, 1897.

56 "Ranks Among the Best in the State: The Los Angeles County Poor Farm," *Los Angeles Herald*, June 16, 1895.

good places for a number of lesser leaders of the Republican faith, who crop off $1,300 a month of the money that people are now standing in line at the tax collector's office waiting for a chance to pay in."[57] The Los Angeles Herald led the political discourse, publishing several articles questioning the funding and expenses associated with the Poor Farm. In 1896, the Herald asked the important question "Who paid for turkeys?" referring to a lavish banquet given by Dr. Burdick.[58]

By 1900, the Poor Farm's agricultural programs were beginning to turn a significant profit, prompting the County Board of Supervisors to reevaluate the institution's management structure. Members of the Board believed the responsibilities of the superintendent and chief physician should be separated into two distinct positions in order to better manage the profitable farm; between 1888 and 1906, four superintendents and five chief physicians successively held tenure at the Poor Farm (**Table 1**) When Dr. Burdick abruptly resigned as the institution's superintendent in 1901 due to health concerns, the Board of Supervisors appointed T. F. Simpson as the new superintendent and gave Dr. F. L. Norton the position of resident physician. Despite the success of its agricultural programs, the Poor Farm began to deteriorate under the new leadership. Inspections of the facilities in 1903 and again in 1906 revealed unsanitary conditions.[59] In 1906, the City of Los Angeles and Los Angeles County introduced a ballot measure for a bond including $70,000 for much needed improvements at the Poor Farm. However, the measure failed to collect the necessary two-thirds majority of the vote. Continued concerns of excessive taxation expressed throughout the 1890s and rising anxiety surrounding the growing number of tuberculosis sufferers in Southern California may have contributed to the measure's defeat. Despite the bond's failure at the ballot, the County Supervisors were determined to make improvements to the Poor Farm using the normal funds available.

TABLE 1
LOS ANGELES COUNTY POOR FARM SUPERINTENDENTS AND CHIEF RESIDENT PHYSICIANS (1888-1906)

Superintendents	Chief Resident Physicians
B.V. Dougall (1888-1889)	B.V. Dougall (1888-1889)
Edwin L. Burdick (1889-1901)	Edwin L. Burdick (1889-1901)
T. F. Simpson (1901-1903)	F. L. Norton (1901-1903)
George S. Clarke (1903-1907)	Marshal E. Price (1903-1907)* F. B. Dwire (1907-1910)*

* The 1907 date is an estimate based on the career dates of the corresponding Superintendent George S. Clarke. Documentation of the end of Dr. Price's career at the County Farm and the beginning of Dr. Dwire's term as Chief Resident Physician could not be found in primary or secondary source information.

SOURCES: *Los Angeles Times, Los Angeles Herald,* Colleen Adair Fliedner*, Centennial: Rancho Los Amigos Medical Center, 1888-1988,* Rancho Los Amigos Medical Center, 1990.

57 "Poorest Paid of All," *Los Angeles Herald*, November 15, 1895.
58 "Who Paid for Turkeys?" *Los Angeles Herald*, November 2, 1896.
59 "County Farm Ripped Out," *Los Angeles Times,* April 1, 1903.

Development of Rancho Los Amigos (1907-1932)

The era between 1907 and 1932 marked a period of rapid change for the Poor Farm. The property struggled with its identity as it experienced changes leading it in the direction of becoming a long-term healthcare facility. However, the agricultural programs remained a key part of the institution's daily operations. George Clark's tenure as superintendent ended in 1907 when he was temporarily replaced by Donald Chick, who was then closely followed by Andrew Wade (**Table 2**). Also in 1907, the facility added a new patient ward (LACO No. 1205) to house the "harmless insane" in anticipation of an influx of patients from the overburdened state hospital. The construction of the new patient ward signified the beginning of the farm's growing responsibility to treat patients suffering with mental illness. However, 1907 also brought continued conversations regarding potential improvements to the facility's productivity as a farm.

TABLE 2
LOS ANGELES COUNTY POOR FARM SUPERINTENDENTS AND CHIEF RESIDENT PHYSICIANS (1907-1932)

Superintendents	Chief Resident Physicians
Donald Chick (1907)	Carlton S. Allen (1910-1921)*
Andrew Wade (1907-1911)	William A. Kristensen (1921-1924)
Charles C. Manning (1911-1915)	James Houloose (1924-1927)
William R. Harriman (1915-1931)	Malcolm Hebard (1930-1937)
Everett J. Gray (1931-1933)	

* The end date of Allen's career at the Poor Farm is not clear in the historical records. 1921 is an estimated date based on the start date of his successor Dr. Kristensen.

SOURCES: *Los Angeles Times, Los Angeles Herald,* Fliedner, *Centennial.*

The primary motivation for agricultural improvements was the hope in making the facility self-sustaining, which had been the County's goal since the farm's inception. County Supervisor S. T. Eldridge was confident that his proposed improvements to the facility would make it self-sustaining by 1909. Additional improvements to the facility included plans for a new laundry and a water pumping plant, electric lighting, and a blacksmith shop.[60] The improvements succeeded in making the farm more profitable, significantly reducing the cost of the facility's operation. By 1910, the press jokingly labeled the Poor Farm as the "rich farm," stating that the orange orchard alone would net the County over $13,000.[61] That year, the Poor Farm finally achieved sustainability, recording a profit of over $3,000.

In 1911, Charles C. Manning took over as the Poor Farm superintendent. Manning's appointment drew criticism due to the fact that his father was a county supervisor and chairman of the County Poor Farm Committee.[62] Despite public cries of nepotism, Manning remained in the position until 1915. During his tenure as superintendent, the Poor Farm experienced significant growth,

60 "May Sustain Itself Soon," *Los Angeles Times,* April 24, 1907.
61 "County Poor Farm Really is Reasonably Rich Farm," *Los Angeles Times,* September 18, 1910.
62 "Gets Grilling, Also Praise," *Los Angeles Times,* October 4, 1911.

increasing the inmate population from 198 to 479.[63] Manning implemented a substantial building campaign to accommodate the growing population, adding a new dining room and kitchen, hospital wards, water tower, and horse stable, in 1913.[64] In addition to the new facilities accommodating the growing number of patients and staff, Manning had plans drawn up for a new superintendent's residence (LACO No. 1101). "The approximately 5,000 square-foot home included four large bedrooms, each with its own screened sleeping porch for hot summer nights; a maid's room and bathroom behind the kitchen; a den and dining room, each having built-in cupboards or bookcases with leaded glass and a modern kitchen."[65] However, Manning never had a chance to reside in the home. He resigned in April of 1915, after a scathing review by the County Grand Jury who accused him of incompetence and mismanagement of county property.

In 1915, the County Board of Supervisors appointed William Ruddy Harriman as the Poor Farm's new superintendent. Harriman would serve the Poor Farm for over 37 years, becoming the longest tenured superintendent in the facility's history. During his career, he oversaw significant changes to the subject property as it transitioned from a poor farm into a long term care facility. At 26 years of age, Harriman had been working as a soil expert upon graduation from the University of Southern California.[66] He was immediately faced with substantial challenges at the Poor Farm after severe flooding in 1914 resulted in significant damage to the fields and orchards. "The water left the fields under two to four feet of thick layers of river debris and sand. This was the end of the lucrative orange-and-lemon-growing business at the County Farm."[67] Naturally, Harriman's first order of business was to restore the farm fields. He consulted experts at the University of California's Agricultural Extension Service and by 1917, 60 acres of farm land had been replanted.[68] Two years earlier, the County had renamed the Poor Farm to simply, the County Farm hoping to remove the growing stigma surrounding poor houses.[69]

Overcrowding in the County Hospital was forcefully converting the farm into a healthcare facility. Hospital administrators relocated patients with minor illnesses to the County Farm. However, the farm was ill-equipped to accept the influx of new patients. "There are 100 inmates of the general wards who must receive food-tray service, whereas the farm is equipped only for those able to go to the dining-rooms."[70] The farm had become so overcrowded that men were being housed in the hay loft of the horse stable. To accommodate the patients coming from the County Hospital, new wards were constructed and dining facilities were expanded throughout the 1920s. "Either the county had to stop sending these people to the Farm, or it had to provide the funds for Infirmary Buildings, additional nurses, orderlies, porters, cleaners, a special diet kitchen, and living facilities for all of these additional employees."[71] As the County accepted

63 Fliedner, *Centennial*, 74.
64 Fliedner, *Centennial*, 74-78.
65 Fliedner, *Centennial*, 78.
66 "New County Farm Boss," *Los Angeles Times,* May 23, 1915.
67 Fliedner, *Centennial*, 79.
68 Fliedner, *Centennial*, 88.
69 "Unemployed to be Lost Tribe," *Los Angeles Times,* September 4, 1915.
70 "County Bonds Will Aid All," *Los Angeles Times,* April 29, 1923.
71 Fliedner, *Centennial*, 104.

Harriman's request for more funding, the agricultural facilities would gradually make way for the new hospital wards making the 1920s the "beginning of the end" for the County Farm.[72]

While the County Farm was evolving, Harriman worked hard to make the agricultural programs profitable again. Throughout the farm's history it had established a lucrative dairy operation. However, no records of the herd's ancestry had been kept. Harriman traced the pedigrees of the heard and restored the records, establishing the farms Holstein cattle stock as one of the most notable in Southern California. The farm began to advertise itself as a premier breeder of Holstein cattle.[73] Harriman's efforts proved to be a significant achievement as the farm was applauded for its cattle and dairy programs.

Misfortune struck the County Farm in 1924 when the prize dairy herd was diagnosed with hoof and mouth disease. "When it was all over, over 400 animals—107 pigs, 13 sheep, and 315 cattle—were dead."[74] The institution set out to rebuild the prized herd by gathering new cows from the state's top breeders. In 1926, the County purchased 68 acres of land north of the Poor Farm known as Tract 6. There, Harriman would oversee the construction of a new dairy. The location had multiple benefits, including being closer to the alfalfa fields and reducing the amount of dust, flies, and odor around the County Farm's patient population. Despite the tragedy of the 1924 hoof and mouth disease, the farm's agricultural programs had become productive once again. "The Los Angeles County Farm's agriculture today represents some of the very best farming theories in practice."[75] By 1926, the property consisted of over 250 acres of agricultural land, 120 of which were planted with alfalfa in support of the new dairy program.

In 1930, the County began construction of the Harriman Building (located on the RLA North Campus), a new hospital building near the County Farm. The new building was intended to treat people suffering chronic illness further pushing the farm's transition toward becoming a long-term healthcare facility. In the same year, the County Board of Supervisors announced an attempt to rename the Poor Farm with the intention of removing the stigma of poverty from the institution. "Many people, persons who are in actual need of the county farm, folks who are eligible for admission, have fear of going to the institution because of its name."[76] The Los Angeles County Farm was the first institution of its type in California to consider distancing itself from its past. In 1931, Assistant Superintendent Everett J. Gray took over as County Farm Superintendent. Harriman had left the position to become the County Superintendent of Charities, however, he continued to keep a watchful eye on the institution. A year later, the County Farm officially changed its name to Rancho Los Amigos honoring the mission architecture found throughout the property.[77] By then, the facility was housing nearly 3,000 patients.

72 Fliedner, Centennial, 104.
73 "Profit Without Labor," *Los Angeles Times,* November 18, 1923.
74 Fliedner, Centennial, 112.
75 "Unheralded Achievements of Our Farm," *Los Angeles Times,* August 1, 1926.
76 "Less Odious Name Sought for County Poor Farm," *Los Angeles Times,* August 13, 1930.
77 Fliedner, *Centennial*, 176.

Establishment of the Long Term Healthcare Facility (1933-1952)

William Harriman's brief tenure as the County Superintendent of Charities ended in 1933 when the Board of Supervisors granted his request to return to Rancho Los Amigos where he remained until 1952. Beginning with the construction of a new patient ward in 1930 (Harriman Building, North Campus), the long-term healthcare facility began to spread north of Imperial Highway. While construction at Rancho Los Amigos was focused on its growing north campus, the old farm had experienced very little development as far as physical construction of new buildings was concerned. Damage caused by the Long Beach earthquake in 1933 meant that this following era would be a time of rebuilding for the former County Farm. It was also during this period that the Poor Farm completed its transition into a long-term healthcare facility. The implementation of new treatments combined with the evolving patient population and a reduction of the agricultural programs resulted in the end of the County Farm and the emergence of Rancho Los Amigos as a long term healthcare facility.

This period in Rancho Los Amigos' history literally began with a bang. The Long Beach earthquake struck at 5:54 P.M. on March 10, 1933, resulting in significant damage to many of the buildings throughout the facility. The power house suffered significant damage to interior and exterior walls as well as the boiler, disrupting the power throughout the facilities.[78] "Although there had been $300,000 in structural damage and 15 injuries, remarkably, no one was killed at Rancho."[79] Several ward buildings were damaged, resulting in the establishment of a tent city to house the displaced patients. The original patient wards (North and South Wards) designed by Kysor, Morgan, and Wells in 1888 were condemned and demolished as a result of the earthquake damage.

Later in 1933, economic hardships incurred due to the Great Depression forced the County to announce budget cuts affecting the County Hospital, Olive View Sanitarium, and the County Farm. The cuts resulted in the downsizing of Rancho Los Amigos' staff and agricultural programs. "The blue ribbon Belgian horses and the registered sheep at the Los Angeles County Farm will be among those looking for new homes soon as a result of the new 10 per cent cut in the budget."[80] The cost to operate the facilities had increased exponentially since the early days of the County Farm. "The gross cost includes room, board, clothing, shoes, laundry, medical and nursing care, salaries, maintenance of property and production of light, heat and power."[81] By 1935 there were close to 3,000 inmates, each costing 88 cents per day.

Occupational therapy programs developed at Rancho Los Amigos played a significant role in patient recovery. "On a quiet avenue of this 540-acre rancho is an attractive building known to visitors as the Occupational Therapy Shop. But patients of the institution call it the 'life shop.'"[82] However, budget reductions affected the Rancho's occupational therapy program resulting in a

78 Rancho Los Amigos, *Earthquake Damage Summary*, 1938, Rancho Los Amigos Hospital Records (Box 32), USC Libraries Special Collections, Los Angeles, CA.

79 Fliedner, *Centennial*, 182.

80 "Budget Cut Hits Blooded Stock at County Farm," *Los Angeles Times,* September 16, 1933.

81 "Poor Farm Cost Shown," *Los Angeles Times,* August 9, 1935.

82 "Patients Find New Interests in Rancho Los Amigo Shop," *Los Angeles Times,* September 27, 1937.

temporary shutdown of all but the printing department and the Shoe Shop in 1934.[83] William Harriman emphasized the importance of occupational therapy by describing what he called muscular re-education. Patients were able to perform shop activities exercising their crippled limbs back to health. Despite decreased budgets, the County Board of Supervisors agreed the programs were important and worked to find a way to provide funding.

Up until the 1930s, Rancho Los Amigos served mostly elderly patients nearing the end of their lives. However, as the facilities and programs expanded, they began to welcome new patients from other age groups. "With the enactment of the State old-age pension, many patients are leaving the institution, making room for the youngsters."[84] In 1937, the Rancho accepted forty new patients ranging in age from 22 months old to 15 years of age. In 1938, new programs were introduced to occupy chronically ill patients between the ages of 20 and 40 years old. The programs included a school teaching reading, writing, and arithmetic. "The institution also provides classes in artistic learning. There are art classes, citizenship classes, and short-story writing."[85]

During World War II, the patients and staff of Rancho Los Amigos contributed in a number of ways. Staff members volunteered for the County' civilian defense effort. The employees served as lookouts and air raid wardens.[86] Many of the patients contributed by working in nearby factories. "Mr. Donovan Perkins, formerly an assistant administrator at Rancho, explained that a truck picked up these men in front of the General Wards (LACO Nos. 1184-1188) and took them to work at the defense plants each day."[87] Patients who couldn't leave the Rancho contributed an hour or more of their time to "war work." "The patients will smooth metal stampings by hand for the Douglas Aircraft Corp."[88] In 1944, the Rancho started a subcontracting company called Warco, staffed by Rancho employees and handicapped patients. "Wages are set at the same rate for normal workers but the patients are limited to two to six hours a day."[89] The company produced rubber materials and aircraft parts. The program was so successful that it was continued after the war ended.

During the post-war years, the facility continued to expand the North Campus with the addition of multiple patient wards. New treatment programs included tending to paralysis and polio sufferers. "Victims of infantile paralysis are coming to the County's Rancho Los Amigos for post-polio care faster than the present staff can take care of them."[90] Rancho Los Amigos would eventually establish itself as one of the premier polio treatment facilities in the Nation. By 1951, Rancho Los Amigos had fully developed into a long-term healthcare facility, providing geriatric, medical and nursing care, treatment for those suffering from chronic illness, and care for patients recovering from medical or surgical conditions. "Rancho also provided the necessary medical, surgical and

83 Fliedner, Centennial, 185.
84 "Forty Children Find New Home," *Los Angeles Times,* November 1, 1937.
85 "Rancho Los Amigos Brings Classes to Eager Inmates," *Los Angeles Times,* October 9, 1938.
86 "County Institutions Map Raid Protection Setup" *Los Angeles Times,* March 27, 1942.
87 Fliedner, *Centennial*, 204.
88 "Lame and blind at County Farm to Enter War Work," *Los Angeles Times,* November 15, 1942.
89 "War Work Holds Out New Hope to Destitute," *Los Angeles Times,* October 9, 1944.
90 "Many Infantile Paralysis Victims Brought to Rancho," *LW,* August 15, 1946.

ancillary care for the largest concentration of respirator-dependent poliomyelitis patients in history."[91] By the late 1950s, most of the significant activities taking place at Rancho Los Amigos occurred on the developing North Campus, located on the north side of Imperial Highway. Construction of new facilities were focused in this area, beginning with the 1930 construction of what would become known as the Harriman Building, at the corner of Erickson Avenue and Imperial Highway. The development of the North Campus was the result of William Harriman's master plan to develop a 2,500 bed hospital.[92]

While the general wards on the subject property continued to serve the need of ambulatory patients with less than serious illnesses through the 1950s, the North Campus developed into a world-famous rehabilitation center.[93] Harriman would retire in 1952, citing health concerns as the primary reason for his departure. He was relieved by Robert Thomas. Under the direction of Thomas between 1952 and 1956, Rancho Los Amigos restructured its administration by grouping staff members into new departments and sub-departments, including "Clinical Laboratories, X-Ray, Dental, Pharmacy, Physical Therapy, Occupational Therapy and other ancillary services."[94] In 1952, the large fields east of the old County Farm were subdivided for residential development. In 1954, the polio service vacated the patient wards on the subject property, which were then used to house infirmary patients and "the ever-shrinking population of ambulatory, mostly recovering, alcoholic men."[95] By 1957, Rancho Los Amigos began phasing out its mental wards in order to focus on becoming a modern hospital. That same year, the County officially reported the discontinuation of all agricultural activities.[96]

Construction History of Rancho Los Amigos (1888-1952)

As described in the Historic Context above, the period of significance for the subject property is 1888 to 1952; it begins with the Los Angeles County Poor Farm's opening (1888) and ends with the complete evolution of the subject property into a long-term healthcare facility, marked by the residential subdivision and sale of former agricultural lands east of Dahlia Avenue and north of Consuelo Street (1952). The construction history of the subject property is described below and illustrated by historic maps and aerial photographs dating from 1923 to 1963 (see **Figures 7 to 13** in the *Research* section). Construction dates were identified based upon available architectural drawings at USC Libraries Special Collections and Rancho Los Amigos Archive, as well as Colleen Fliedner's book, *Centennial: Rancho Los Amigos Medical Center: 1888-1988*. Dates were also approximated using the aforementioned historic maps and aerial photographs. In instances where these sources did not yield dates, the previous evaluation by Sapphos was consulted.

91 Fliedner, *Centennial*, 235.
92 Fliedner, *Centennial*, 159.
93 Fliedner, *Centennial*, 256.
94 Fliedner, *Centennial*, 250.
95 Fliedner, *Centennial*, 275.
96 Rancho Los Amigos, *Final Recommendations on Discontinuance of Dairy and Poultry Operations at Rancho Los Amigos Hospital*, July 16, 1957, Rancho Los Amigos Hospital Records (Box 32), USC Libraries Special Collections, Los Angeles, CA.

As a result of this study, the District's period of significance was divided into three eras: Los Angeles County Poor Farm Era (1888-1906), Development of Rancho Los Amigos (1907-1932), and Establishment of the Long Term Care Facility (1933-1952). These eras relate to the subject property's pattern of development during the period of significance. Described below is the history of the District's construction across these three eras. The subject property's development between 1888 and 1952 is also illustrated in **Figure 3** below. As will be explained, the subject property developed throughout the period of significance, but especially during the Development of Rancho Los Amigos Era.

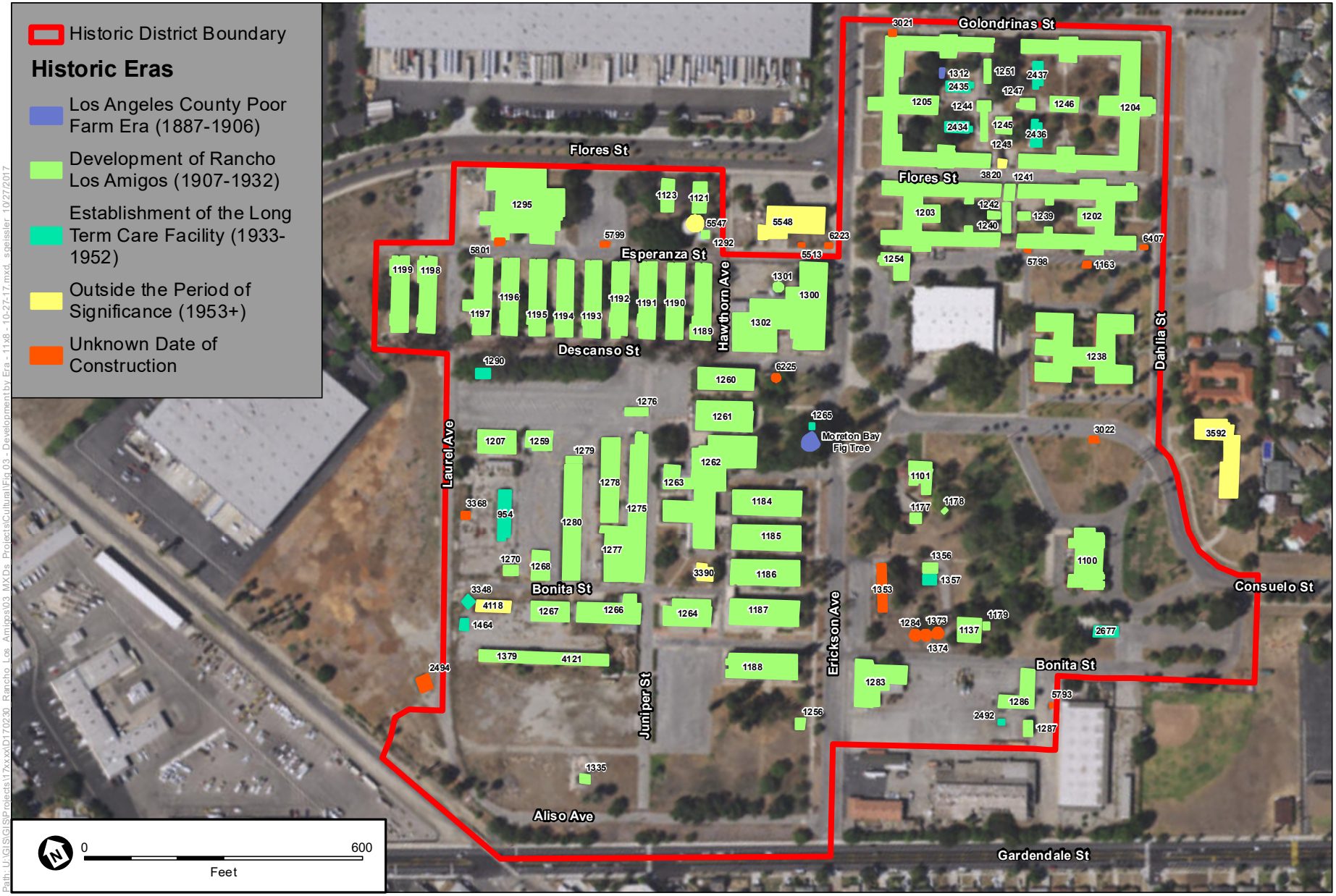
The evolution of the subject property from a poor farm to long-term healthcare facility was a result of overcrowding at the county and state hospitals as the indigent population grew over time. Patients with less serious illnesses were sent to the County Farm to receive treatment. The growth in population at the Poor Farm required the construction of new patient wards. These buildings were added as needed, utilizing land that was available at the time. A 1926 aerial illustrates the Poor Farm at a significant moment in its history (see Figure 8). That year, the farm's livestock became infected with hoof and mouth disease, prompting Superintendent Harriman to relocate many of the agricultural programs and associated buildings to a new location further north. The 1926 aerial depicts the subject property at critical point in its transition with patient wards mixed indiscriminately among agricultural buildings and fields.

Los Angeles County Poor Farm (1887-1906)

The original core of the Los Angeles County Poor Farm was established in the vicinity of the area presently occupied by LACO No. 1261 (Auditorium). In 1888, architectural firm Kysor, Morgan, and Walls designed the site plan and most of the original core, including the North Ward (Women's Ward) and South Wards (Men's Ward). The North Ward was originally intended for female patients but was soon reassigned to indigent men whose numbers were steadily increasing.[97] The North and South Wards originally flanked an open courtyard situated immediately to the east of the area where LACO No. 1261 now sits. In 1888, architect Jacob Friedlander added a Dining Hall (Refectory) on the west side of the courtyard, on the site where LACO No. 1261 (Auditorium) presently stands.[98] In 1889, Kysor, Morgan, and Walls infilled the courtyard with a three-story Office Building.[99]

Following the reassignment of the original North Ward to male patients, a new Women's Ward (also referred to as "Old Ladies' Ward") was constructed in 1897 at the northeast corner of Consuelo Street and Erickson Avenue. Situated at an angle overlooking the traffic circle, this building was expanded in 1916 and again during the 1920s; the latter addition extended north towards LACO No. 1203 (Women's Psychiatric Ward) constructed in 1919 and described below.

97 Fliedner, *Centennial*, 91.
98 Fliedner, *Centennial*, 24.
99 Fliedner, *Centennial*, 24.



SOURCE: NAIP, 2016 (Aerial).

Rancho Los Amigos South Campus

Figure 3

Development by Era

ESA

The ground floor of the Women's Ward housed physiotherapy and x-ray offices, among other services. In 1930, the Women's Ward was also reassigned to male ambulatory patients. Female patients were moved to a new ward constructed that year, directly to the east, which is described below: Casa Consuelo (LACO No. 1238).[100]

Various structures were added to the Poor Farm, as needed, including, a windmill, barn, and Aviary (LACO No. 1312). Other improvements included a laundry and water pumping plant, electric lighting, and a blacksmith shop.[101] The Poor Farm's agricultural lands were also developed with orchards, vineyards, and a poultry yard. Originally, Consuelo Street appears to have been plotted as the Poor Farm's main entrance, with Erickson Avenue (originally Eucalyptus Avenue) serving as a secondary circulation path.

Excepting LACO No. 1312, which was relocated around 1924 to the courtyard of LACO No. 1205, all of the buildings originally associated with the Poor Farm were demolished by the 1960s. The Office Building and Dining Hall (Refectory) were razed in 1929.[102] Moreover, the original North and South Wards were condemned around 1933, following the Long Beach earthquake which left them uninhabitable. Finally, the Women's Ward at the northeast corner of Consuelo Street and Erickson Avenue was partially demolished after sustaining damage during the earthquake; it was fully demolished in 1965.[103]

Development of Rancho Los Amigos (1907-1932)

Research suggests that the Los Angeles County Poor Farm's transition to Rancho Los Amigos was not formally planned; rather, development occurred over time in response to specific needs. Under the direction of William Ruddy Harriman, who served as Superintendent from 1915 to 1952, significant changes were made to the subject property. Building campaigns reached their height during the Development of Rancho Los Amigos Era (1907-1932), when the District essentially achieved its present appearance.

In 1907, during the brief administration of Donald Chick, a much needed ward was constructed for "harmlessly insane" patients, as they were then called, on the east side of Erickson Avenue: LACO No. 1205 (Men's Psychiatric Ward). The construction of this ward was a significant turning point in the subject property's evolution as it marked the emergence of the long-term healthcare facility.[104] By the time the subject property's name was officially changed to Rancho Los Amigos in 1932, three major groupings of patient wards had been constructed, each containing buildings featuring identical or very similar designs.

The first grouping, comprised of four U-shaped psychiatric wards, including LACO No. 1205, was established at the northeast corner of the subject property. The U-shape of LACO No. 1205, which was built first, was actually the result of various additions over time, the dates of which are not known with absolute certainty. Research indicates that this building originally featured a

[100] Fliedner, *Centennial*, 91.
[101] "May Sustain Itself Soon," *Los Angeles Times,* April 24, 1907.
[102] Fliedner, *Centennial*, 143.
[103] Fliedner, *Centennial*, 91.
[104] Fliedner, *Centennial*, 63.

rectangular plan with a north-south orientation; however, in 1909, two wings with east-west orientations were added, altering the original footprint to a U-shape. In 1916, the north and south wings were further elongated, resulting in an even deeper U-shape; in the process, each wing received a two-story addition (additional ward space with a floor above serving as housing for patient attendants) and a one-story addition serving as more ward space. A cafeteria addition was also made to the center of LACO No. 1205 in 1916.[105]

The ultimate U-shaped plan of LACO No. 1205 set an important precedent for later wards on the subject property, as it was replicated or mimicked three times. In 1919, LACO No. 1203 (Women's Psychiatric Ward), a smaller U-shaped ward, was erected immediately to the south of LACO No. 1205.[106] In 1924, two additional wards mirroring the plans of LACO Nos. 1205 and 1203 were added, completing the grouping: LACO No. 1204 (Men's Psychiatric Ward) and LACO No. 1202 (Women's Psychiatric Ward).[107]

The U-shaped wards were clearly designed to contain and control the movements of those deemed "harmlessly insane." [108] Windows were fitted with security bars and all doors were kept locked. It remains unclear if these patients posed a threat to their own safety, as well as the safety of others. In some cases, it was necessary to relocate these individuals to state mental hospitals.[109] Colleen Fliedner describes the overall floorplan of LACO No. 1205 and how "inmates," as patients were originally called, used the building:

> *The floor plan…was designed so that there would be rows of rooms on each side of the central corridor. In that way, each inmate would have a window. The men occupied the north portion of the building and the women were kept on the south wing. Two fenced courtyards along the back of the building with shady trees, benches and drinking fountains encouraged the patients to sit in the fresh air and sunshine. Further encouragement for spending time outside was provided by locking the patients out of their rooms during the day. This was also the practice in the other wards.[110]*

Prevailing attitudes towards healthcare are evident in the designs of the U-shaped wards, as well as other wards on the subject property. At the time of their construction, the curative properties of the temperate Southern California climate were being lauded. Moreover, great emphasis was being placed on creating a salubrious living environment for patients, achieved through the provision of cross-ventilation and abundant natural light. Finally, aesthetics mattered; it was important to create a "domestic" living environment with direct access to attractively landscaped outdoor areas. As will be explained further, these considerations factored prominently in ward design on the subject property. Overall, living conditions at the subject property were probably superior to those at state mental hospitals.[111] At the subject property, patients could enjoy

[105] Fliedner, *Centennial*, 89. Also see Sapphos, DPR 523L Form for LACO Nos. 1204 and 1205, 2008.
[106] Fliedner, *Centennial*, 100.
[107] Fliedner, *Centennial*, 133.
[108] Fliedner, *Centennial*, 133.
[109] Fliedner, *Centennial*, 65.
[110] Fliedner, *Centennial*, 65.
[111] Fliedner, *Centennial*, 65.

intimate private living quarters and healthful diets, and could participate in occupational therapy programs and recreational activities. The second grouping of wards on the subject property, consisting of five identical two-story general wards, was established on the west side of Erickson Avenue, just north of its southern terminus, beginning with the construction of LACO Nos. 1184 and 1185 in 1913.[112] LACO No. 1186 (built in 1916),[113] LACO No. 1187 (built in 1926),[114] and LACO No. 1188 (built in 1928)[115] were subsequently added to the south, completing the row of wards. The original architects of LACO Nos. 1184 to 1188 are not known with absolute certainty. Drawings dating from 1915 in the RLA Archive appear to be original plans identifying architect George Low as the designer of LACO No. 1186.[116] Moreover, drawings dating from 1925 in the RLA Archives appear to be original plans identifying architect Montrose S. Warm as the designer of LACO Nos. 1187 and 1188.[117] LACO Nos. 1184 to 1188 appear to have originally featured open floorplans permitting the accommodation of large numbers of patients (probably ambulatory), with toilet facilities concentrated in the middle. The otherwise utilitarian concept of these wards included a feature intended to create an indoor-outdoor living experience for patients; open porches at both ends (east and west) of the first and second floors, allowing for sunlight penetration and cross-ventilation.

Finally, the third grouping, comprised of thirteen one-story cottage-style infirmary wards of similar design, was situated on the north side of Descanso Street (referred to as "Infirmary Drive"),[118] at the northwestern corner of the subject property. This grouping included nine cottages on the east side of Laurel Street, connected by a long verandah along their primary (south) elevations, and four cottages on the west side of Laurel Street, also unified by a verandah fronting their primary (south) elevations. The cottages were constructed in three phases.[119] The first phase included the construction of LACO Nos. 1189, 1190, 1191, and 1192 in 1922. During the second phase, LACO Nos. 1193, 1194, 1195, and 1196 were constructed in 1923. Finally, as part of the third phase, LACO Nos. 1197, 1198, 1199 were added in 1928. LACO Nos. 1200 and 1201 were also erected during the third phase at the end (east side) of the row of cottages; however, they were demolished between 1994 and 2003 according to aerial photographs.[120] The construction dates of the cottages are confirmed by a 1923 topographic map (see Figure 7). The cottages housed a variety of patients, including invalid women and male diabetic, urology, and bedridden patients; one cottage also served as the director of nursing's office.[121] As in the case of the two-story wards on the west side of Erickson Avenue, the original architects of the cottages are not confirmed. Drawings dating from 1926 in the RLA Archives appear to be original plans

[112] Fliedner, *Centennial*, 63. Blueprints for LACO Nos. 1184 and 1185 were prepared in 1912, with construction occurring the following year.
[113] Fliedner, *Centennial*, 89.
[114] Fliedner, *Centennial*, 140.
[115] Fliedner, *Centennial*, 150.
[116] RLA Archive, Downey, California, drawings for LACO No. 1186, 1915.
[117] RLA Archive, Downey, California, drawings for LACO Nos. 1187 and 1188, 1925.
[118] Fliedner, *Centennial*, 105.
[119] Fliedner, *Centennial*, 120.
[120] NTR Online. www.historicaerials.com, accessed October 12, 2017.
[121] Fliedner, *Centennial*, 120.

identifying architect Montrose S. Warm as the designer of LACO No. 1197, 1198, and 1199.[122] As will be explained under Early Hospital Architecture (1880-1908), the cottage-style patient wards on the subject property derived their overall design from similar one-story pavilions on the Southern California State Hospital (The Patton State Hospital), established in 1908. Constructed under the direction of John McGonigle, these pavilions were connected by a large porch, similar to those on the subject property. According to Colleen Fliedner, "By 1927 all of the [cottages] were bulging at the seams, and it became necessary to keep around 15 patients on the sleeping porches."[123] By 1936, the porches were enclosed.[124]

The cottages were designed to evoke a domestic setting, achieved through the incorporation of the pavilion concept and Craftsman style elements commonly applied to residential architecture, such as shaded porches and wood siding. Consistent with the designs of the U-shaped and two-story wards described above, the cottages were configured to maximize light and air. To this effect, the cottages were laid out with narrow interstitial outdoor spaces. Moreover, each cottage included a screened porch along one of its long sides, overlooking a narrow courtyard separating it from the adjacent cottage. Finally, the large verandahs unifying these cottages provided shaded areas for patients to socialize in and survey their surroundings.

Gender played a role in the both the placement and use of wards on the subject property. Male and female patients were routinely segregated, with specific wards or portions of wards designated for either sex. By 1930, a cluster of three exclusively female wards established at the northeast corner of the subject property.[125] This cluster included two previously described wards: LACO Nos. 1203 and 1202 constructed in 1919 and 1924, respectively. Casa Consuelo (LACO No. 1238), the third women's ward, was constructed in 1930; it replaced the Women's Ward, constructed in 1897 and described above, at the northeast corner of Consuelo Street and Erickson Avenue, which was reassigned to male patients at this time.[126] Situated immediately to the south of LACO No. 1202, Casa Consuelo was designed for female ambulatory patients by architect Karl Wilhelm Muck[127] in the Spanish Colonial Revival style and originally contained dormitory-style accommodations, including one-hundred-thirty-two bedrooms, both private and shared. The irregular floorplan of this two-story ward included "three courtyards, sun porches, and six smaller parlors on each floor."[128] While the other wards did not contain a recreation room, Casa Consuelo featured eleven "small day rooms furnished in a variety of styles to suit individual tastes. Reportedly, Mrs. Elinor Harriman had a great deal to do with decorating the new facility."[129]As the subject property developed, its utility needs grew rapidly. LACO No. 1302 (Shop, Laundry, Ice Plant) was built in 1909.[130] Shortly thereafter in 1913, the Water Tower (LACO No. 1301)

[122] RLA Archive, Downey, California, drawings for LACO Nos. 1197, 1198, and 1199, 1926.
[123] Fliedner, *Centennial*, 120.
[124] Fliedner, *Centennial*, 120.
[125] Fliedner, *Centennial*, 91.
[126] Fliedner, *Centennial*, 91, 148.
[127] RLA Archive, Downey, California, drawings for LACO No. 1238, 1928.
[128] Fliedner, *Centennial*, 91, 149.
[129] Fliedner, *Centennial*, 91, 149.
[130] Fliedner, *Centennial*, 70. Also see "May Sustain Itself Soon," *Los Angeles Times,* April 24, 1907.

was erected.[131] It was not until 1925, however, that the current Power Plant was erected (LACO No. 1300).[132] The Power Plant was designed in the Neoclassical Revival style with an imposing primary façade overlooking the west side Erickson Avenue. The Power Plant contained one-thousand horsepower boilers and was fitted "with a most up-to-date and efficient arrangement of pumps, heaters and auxiliary equipment, as well as two new steam-driven electrical generators with modern switching equipment and transformers for high-tension lines delivering the power to distant parts of the property."[133]

In 1915, a five-thousand-square-foot single-family residence designed by architect George Low[134] in the Craftsman style was erected in the area below LACO No. 1205, on the south side of Consuelo Street, for the Superintendent and his family: LACO No. 1101 (Harriman/Superintendent's House).[135] Although LACO No. 1101 was constructed during Charles Manning's administration, it appears that William R. Harriman, who served as Superintendent from 1915 to 1952, was the first to reside there. The residence included four spacious bedrooms, "each with its own screened sleeping porch for hot summer nights; a maid's room and bathroom behind the kitchen; a den and dining room, each having built-in cupboards or bookcases with leaded glass and a modern kitchen."[136] By the early 1920s, the residential setting of LACO No. 1101 included a detached garage (LACO No. 1177) and shed (LACO No. 1178). The construction dates of LACO Nos. 1177 and 1178 are not known with absolute certainty. LACO No. 1177 appears on an aerial photograph dating from 1926 (see Figure 8), but LACO No. 1178 is either non-extant or concealed by foliage. According to the previous evaluation by Sapphos, LACO Nos. 1177 and 1178 were constructed in 1917 and c. 1917 to 1922, respectively.[137]

During the Development of Rancho Los Amigos Era, the subject property's administrative center shifted to the vicinity of LACO No. 1101, on the south side of Consuelo Street. The demolition of the original Office Building on the subject property, as described earlier, followed the construction of a new administration building overlooking Consuelo Street in 1926: LACO No. 1100 (Administration/Safety Police Building).[138] LACO No. 1100 housed various offices, including those belonging to department heads and Mr. Harriman himself. Mr. Harriman's office was located on the ground floor where there was also a lobby.[139] North of the subject property's administrative center, a chapel (LACO No. 1254) designed by architectural firm Hudson & Munsell in the Craftsman style, was constructed in 1907.[140] Situated on the east side of Erickson Ave, north of LACO No. 1101 and directly to the south of LACO No. 1205, LACO No. 1254 was relocated in 1919, further to the south, to make way for LACO No. 1203 (Women's Psychiatric Ward). LACO No. 1254 was used until the 1950s when a new chapel was built at the northeast

131 Fliedner, *Centennial*, 70.
132 Fliedner, *Centennial*, 141. Also see RLA Archive, Downey, California, drawings for LACO No. 1300, 1924.
133 Fliedner, *Centennial*, 91, 141.
134 RLA Archive, Downey, California, drawings for LACO No. 1101, 1914.
135 Fliedner, *Centennial*, 78.
136 Fliedner, *Centennial*, 78.
137 Sapphos, 5-11.
138 Fliedner, *Centennial*, 142. Also see RLA Archive, Downey, California, drawings for LACO No. 1100, 1926.
139 Fliedner, *Centennial*, 144.
140 Fliedner, *Centennial*, 66.

corner of Consuelo Street and Dahlia Avenue, outside the District boundary. Following the erection of LACO No. 1254, several more social, as well as dining, facilities were constructed on the subject property for patient use; these are described below. The subject property's dining facilities include LACO Nos. 1263 (Commissary and Receiving Room) and 1262 (Dining Room, Kitchen, Staff Room). Both of these buildings were constructed in phases, the dates of which are not known with absolute certainty. LACO No. 1263 was built just south of the Poor Farm's original core. According to Sapphos, the first portion (Commissary) of LACO No. 1263was built in 1912 while the second portion (Receiving Room) was built in 1926. In 1913, according to Sapphos, LACO No. 1262 was constructed adjacent to LACO No. 1263. LACO No. 1262 was built in stages, reaching its current configuration in 1924, according to Sapphos. Sapphos describes LACO No. 1262's evolution as follows. The Dining and Reading Room, the earliest portion of LACO No. 1262 was built first and designed by architectural firm Hudson & Munsell. The Kitchen was added in 1917. Next came the Dining Extension in 1920. The final Dining Room addition was built in 1924. LACO Nos. 1262 and 1263 are both brick masonry buildings whose original designs appears to be influenced by Renaissance Revival architecture, particularly in their use of brick arches.

In 1928, the Auditorium (LACO No. 1261), designed by architect Karl Wilhelm Muck,[141] was erected on the site which the original Dining Hall (Refectory) formerly occupied. The following year, Amigos Hall (LACO No. 1266), designed by architect Karl Wilhelm Muck,[142] was built just north of the original poultry yards.[143] Finally, in 1932,[144] Bonita Hall (LACO No. 1264), designed by architect Edward C. N. Brett[145] in the Spanish Colonial Revival style, was added just south of LACO No. 1262. This building provided a recreational space for patients, including areas for music and games. Bonita Hall's original design included a large south-facing shaded porch intended for socializing; it was partially infilled in 1974.[146]

In 1913, a two-story horse stable (LACO No. 1283) designed by architect George Low[147] was erected on the east side of Erickson Avenue, just north of that street's south end. Located on the first floor were the stableman's room and a toilet. The second floor originally served as a hayloft but was soon turned over to male ambulatory patients.[148] After the Long Beach earthquake of 1933, LACO No. 1283 (Trunk Storage), which was extensively damaged, underwent substantial alteration, with the removal of its second story.

The subject property's agricultural functions continued through the 1920s, as marked by the construction of the Broder House/Vivarium (LACO No. 1335) the poultry yard established at the

[141] RLA Archive, Downey, California, drawings for LACO No. 1261. 1927.
[142] RLA Archive, Downey, California, drawings for LACO No. 1266. 1928.
[143] Fliedner, *Centennial*, 140.
[144] Fliedner, *Centennial*, 178.
[145] USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 31, drawings for LACO No. 1264, 1932.
[146] RLA Archive, Downey, California, drawings for LACO No. 1264. 1974.
[147] USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 33, drawings for LACO No. 1283, undated.
[148] Fliedner, *Centennial*, 78.

southwest corner of the subject property. The exact construction date of LACO No. 1335 is not known; according to the previous evaluation by Sapphos, it was constructed in 1929.[149]

In the 1920s, the area to the west of Juniper Street was improved with several buildings and structures associated with occupational therapy. For example, in 1925, the Work Preparation Center (LACO No. 1207) was constructed immediately to the west of LACO No. 1262 (Dining Room, Kitchen, Staff Room). The occupational therapy area was situated within short walking distance of two groupings of patient wards: the cottage-style Patient Wards (LACO Nos. 1189-1199) and two-story General Wards (LACO Nos. 1184-1188). As such, these patients had easy access to the buildings and structures associated with occupational therapy.

Whereas William R. Harriman resided near the new administration center along Consuelo Street, staff were quartered at the northwest corner of the subject property. By 1926, according to an aerial photograph (see Figure 8), several staff cottages occupied this area. One staff housing block was situated in the area presently bound by Erickson Avenue to the east, Hawthorne Avenue to the west, and Descanso Street to the south, partially outside the present RLA South Campus. This block was improved with fifteen staff cottages (three duplexes and twelve single-family dwellings) set behind landscaped front yards and arranged in two rows; eight overlooked Erickson Avenue while seven fronted Hawthorne Avenue. A second staff housing block sat directly to the west of the aforementioned block, occupying the area at the southeast corner of Hawthorne Avenue and Flores Street, also partially outside the present RLA South Campus. This second block consisted of four staff cottages designed by Parker Orasmus Wright, Jr.,[150] each containing four staff living units. Of these, only two remain: LACO Nos. 1121 and 1123. The exact construction dates of LACO Nos. 1121 and 1123 are not known; according to the previous evaluation by Sapphos, they were built in 1921 and 1924, respectively.[151] A Kitchen and Dining Building (LACO No. 1295), intended for staff, was constructed to the east of the second staff housing block. The exact construction date of LACO No. 1295 is also not known; according to the previous evaluation by Sapphos, they were built in 1927.[152] With the exception of LACO Nos. 1121 and 1123, all staff cottages were gradually demolished after 1963, according to aerial photographs (see Figure 13).[153]

During the 1920s, Erickson Avenue became the primary entry to the subject property. The construction of the Power Plant (LACO No. 1300) in 1925, with its grand primary elevation fronting Erickson Avenue, is consistent with this trend. In 1931, Imperial Highway, situated to the north of the subject property, was plotted as a major east-west transportation corridor in the surrounding area. Erickson Avenue connected to Imperial Highway, facilitating vehicular access to the subject property.

[149] Sapphos, 5-24.
[150] USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 33, drawings for LACO No. 1283, undated.
[151] Sapphos, 5-10.
[152] Sapphos, 5-25.
[153] NETR Online. www.historicaerials.com, accessed October 12, 2017.

Establishment of the Long Term Healthcare Facility (1933-1952)

Under the direction of William R. Harriman, the Los Angeles County Poor Farm changed its name to Rancho Los Amigos in 1932; this represented a turning point in the subject property's transition from a poor farm to long-term healthcare facility. By 1933, Rancho Los Amigos was fully developed. There was very little site development during between 1933 and 1952, with only a few buildings added to the site during this time, including the Lumber Shed (LACO No. 954), Landscape Office (LACO No. 1357), and Post Office (LACO No. 2677). The Poor Farm's post office had been located in the Administration Building since 1908, and Superintendents were generally elected as postmasters until 1933 when the amount of mail received required a full-time postmaster to attend the Poor Farm's post office. The existing Post Office (LACO No. 267) was moved to Rancho Los Amigos in 1949. The war surplus building originally served as an army barracks for a nearby military base but was remodeled as a post office when it was relocated to an area just south of the Administration Building (Building No. 1100). Several modifications, including the stuccoing of the exterior walls and replacement of several doors have been made to the building since 1949 (Post/Hazeltine Associates 2003, BSO record).

Early Hospital Architecture (1880-1908)

The various patient wards constructed within the subject property reflect the development of hospital building design. Most of the patient wards are simple structures intended to provide patients with ample natural light, fresh air, and access to outdoor space. Hospital architecture dates back to some of the earliest civilizations in mankind's long history. Researchers have debated over the origin of these building types, however some of the earliest documented cases of facilities designed specifically for healthcare purposes were Roman military hospitals. "The plans for the one in Vindossa in present day Switzerland built in the 1st century AD shows small patient rooms with ante rooms built around courtyards. Each room was thought to hold three beds indicating the ward concept was used early in the history of hospital development."[154] While modern hospitals have evolved over time due to advancements in technology, medical or otherwise, the ward has continued to be a vital characteristic of the property type.

The growth of hospital wards over time resulted in increased concerns regarding sanitation and access to adequate healthcare. "The wards were dark, poorly ventilated, unsanitary, and often located adjacent to other wards with infectious patients."[155] The "pavilion" plan was developed to address these concerns, incorporating the ward concept while providing fresh air and daylight to the patients housed within. In 1880, the California Board of Health published a suggested design concept for future hospital construction, noting that the existing county hospitals were poorly designed for their purpose. The Board of Health commissioned A. A. Cook of Sacramento, and architect knowledgeable in methods of heating and ventilation, to design a recommended hospital plan. Cook's design incorporated a version of the pavilion plan, connected various wards by a series of verandas. "They are designed for cheap structures, within the means of almost any

[154] Tom Gormley, "The History of Hospitals and Wards." March 11, 2010. https://www.healthcaredesignmagazine.com/architecture/history-hospitals-and-wards/, accessed October 13, 2017.

[155] Gormley, "The History of Hospitals and Wards." March 11, 2010. https://www.healthcaredesignmagazine.com/architecture/history-hospitals-and-wards/, accessed October 13, 2017.

county, and can be enlarged from the present plans if desired."[156] Each of the wards were large enough to contain seven to twelve beds while providing each bed with access to windows for fresh air. Fireplaces in each ward provided heat during the cool evenings and winter months. Centrally located in the plan was the service building, which contained lavatories, kitchen and dining facilities, a reception room, and an examining room.

In 1908, the Southern California State Hospital (The Patton State Hospital) opened its new McGonigle Cottages, named after former director John McGonigle, using the pavilion concept. "The new Southern California State Hospital's McGonigle cottages were 'of one story, well lighted and ventilated, and have a large connecting porch, which also connected with the nurses' cottage, where the patients can sit practically out of doors.'"[157] The cottage design provided the patients with a residential environment as opposed to the more common institutional hospital architecture.

Identified Architectural Styles

Craftsman Architecture (1905-1930)

The Craftsman style, which is indigenous to the United States, was popular in Southern California from the early 1900s to the early 1930s. Brothers Charles Summer Greene and Henry Mather Greene, who established the noted architectural firm Greene and Greene in Pasadena around 1894, were influential upon the development of the style. In the early twentieth century, Greene and Greene designed what have been called "ultimate bungalows," including the Robert Roe Blacker House (1907) and iconic Gable House (1908) in Pasadena. The designs of these bungalows stemmed from the Greene brothers' early training at the Manual Training School of Washington University, St, Louis, Missouri, in metal and woodworking and drew inspiration from the English Arts and Crafts movement and traditional East Asian wood architecture. Greene and Greene's residences were popularized by contemporary magazines including *House Beautiful* and *Architectural Record* and provided a major impetus in the publication of pattern books featuring Craftsman bungalows.[158] Ready-cut bungalows also became widely available, providing an attractive and economical housing solution. Because of these factors, the Craftsman style became extremely popular in the country and ubiquitous throughout the County of Los Angeles.

Craftsman style buildings are typically one- or one and one-half stories in height and feature: low-pitched gabled roofs; broad overhanging eaves with exposed structural members; decorative false beams or braces commonly added under gables; full or partial width porches with a roof; double hung windows or grouped casement windows; and shingled, and less frequently, clapboard or stucco, exteriors. LACO No. 1101 (Superintendent's Residence/Harriman House), the only single-family residence on the subject property, was designed by George Low in the Craftsman style and constructed in 1915. LACO Nos. 1189 to 1199 (Patient Wards) erected between 1923 and 1928, also exhibit strong Craftsman influences through their overall massing

156 *Sixth Report of the State Board of Health of California, For the Year Ending June 30*, (Berkley: State of California Department of Public Health, 1880), 21.

157 Baur, *The Health Seekers of Southern California,* 159.

158 Virginia Savage McAlester*, A Field Guide to American Houses* (New York: Alfred A. Knopf, 2013), 568-578.

and cladding materials. Originally serving as wards, the Craftsman-inspired design of these cottages helped create a "domestic" atmosphere for patients.

Neoclassical Revival Architecture (1885-1930)

Neoclassical Revival style architecture is derived from eighteenth- and nineteenth-century Georgian, Federal, Classical, and Greek Revival residential architecture and often freely incorporates regional elements from the New England, mid-Atlantic, and southern variants of those forms. The style is characterized by a full-height porch supported by columns, a façade symmetrically balanced around a center door, and evenly positioned and sized windows. A full-façade porch, a variant in which a colonnaded porch occupies the full width and height of the façade, covered by a flat roof extending forward from a long cross-gable roof on the house itself, was popular in the early twentieth-century. Also common at this time were slender square columns, lacking the decorative capitals and fluting common in earlier Neoclassical Revival buildings. Doors commonly have elaborate decorative surrounds based on Greek-Revival, Federal or Georgian precedents; cornices generally have a boxed eave, often with a wide frieze band beneath; windows are rectangular with double-hung sashes.

The popularity of the Neoclassical Revival Style stems from interest in classical models, sparked in large part by the Chicago's World's Columbian Exposition in 1903. The central buildings of the exposition imitated earlier Classical and Greek-Revival styles and inspired countless public, commercial, and residential imitations. The Virginia State pavilion, that copied Mount Vernon with its full-façade porch added onto an earlier Georgian house, inspired a particular enthusiasm that spread nationwide as an inaccurately identified "Southern colonial" form.[159]

Within the District, Neoclassical Revival is not a common style. The only extant example is LACO No. 1300 (Power Plant), constructed in 1925. Strong Neoclassical Revival influences are evident in this building's symmetrical façade composition, prominent triangular pediment overlooking Erickson Avenue, and regular arrangement of fenestration and Classical pilasters.

Renaissance Revival and Brick Vernacular (1895-1935)

Renaissance Revival architecture is characterized by its Palladian style arched apertures, hipped roof, and use of wide eaves with brackets. More ornate examples of the style were usually designed by architects or master builders. The Italian Renaissance Revival style is an important architectural movement associated with the identity of Southern California as Mediterranean. Closely associated with the Spanish Colonial Revival style, which is discussed below, the Italian Renaissance Revival style is a derivative of renaissance-era Italian domestic architecture that differs from Spanish-inspired designs in several identifiable ways.

Typically, examples of the Renaissance Revival style feature rectangular plans, brick masonry exterior walls, symmetrical façades beneath a low pitched or flat roof hidden by cornices, short parapet walls, and balustrades. More ornate examples are distinguished by an arcaded or rusticated ground level with quoins at the corners of the primary façade. The division of floors is frequently articulated with elaborate string courses which define the sills of windows. Rows of

[159] McAlester*, A Field Guide to American Houses*, 435-446.

round-arch windows, often separated by colonnettes, can mix with windows of different shapes on different floors and are commonly highlighted with strongly marked voussoirs, pilasters, spandrel panels, or pediments. These details are most frequently applied in a contrasting cast stone or terra cotta material.

Brick Vernacular is an architectural style that follows regional building traditions, accommodates local climate conditions, utilizes local building materials (i.e. brick) and construction techniques, and incorporates local styles and types. Vernacular architecture relies on the design skills and traditions of local builders, is usually designed without an architect, and are built by local contractors to serve functional requirements.

Throughout the District, numerous buildings are vernacular brick structures that exhibit Renaissance Revival influences. Examples include: LACO Nos. 1202-1205 (Men and Women's Psychiatric Wards), constructed between 1907 and 1924; LACO No. 1263 (Commissary and Receiving Room), constructed in 1912; LACO No. 1262 (Dining Room, Kitchen, Staff Room), constructed between 1913 and 1926; and LACO No. 1275 (Workshop), constructed in 1917. These brick masonry buildings feature regular façade compositions, arched window and door openings, and low parapets.

Spanish Colonial Revival (1915-1940)

The beginnings of the Spanish Colonial Revival style date to 1915, when it was introduced at the Panama-California Exposition in San Diego. The period revival styles grew in popularity just after World War I, and were patterned after buildings of earlier historic periods. The most common style in the Southwest was the Spanish Colonial Revival. Inspired by the Panama-California Exposition, many architects found Southern California the ideal setting for this architectural style. Numerous publications argued in favor of this period revival style for the "Mediterranean environment" of California, including W. Sexton's Spanish Influence on *American Architecture and Decoration* (1926) and Rexford Newcomb's *The Spanish House for America Its Design, Furnishing, and Garden* (1927).

Architect Bertram Grosvenor Goodhue's comprehensive set of Spanish Revival structures for the Panama-California Exposition catalyzed a region-wide building trend that incorporated Spanish and Moorish influences and even supplanted the previously popular Mission Revival style. The many Spanish Colonial Revival and Mediterranean Revival commercial, civic and residential structures that were built became a key component in the forging of regional identity and quest for legitimacy, since the style helped perpetuate powerful romantic myths about California's origins tied to New Spain. Decorative elements that were appropriated from indigenous American cultures (Native American, Mayan, Aztec) were sometimes incorporated into these eclectic designs to infuse exoticism, along with a certain brand of perceived cultural authenticity. The Spanish Colonial Revival style and its variants were widely used throughout southern California for both commercial and residential properties. The typical identifying features of the Spanish Revival style are a low-pitched red tile roof with little or no eave overhang, the use of arches on

principal fenestration, stucco walls, and an asymmetrical facade.[160] Spanish Colonial Revival is one of several period revival styles commonly applied to single-family residences in the early twentieth-century.

The Spanish Colonial Revival style was regularly applied across many different building types. Examples of the style in the District include: LACO No. 1100 (Administration/Safety Police Building), constructed in 1926; LACO No. 1238 (Casa Consuelo), constructed in 1930; and LACO No. 1264 (Bonita Hall), constructed in 1932.

The Architects of Rancho Los Amigos

Rancho Los Amigos is the result of several building campaigns carried out at different times over the years to serve the functional needs of the facility. The design of building improvements on the campus is attributed to at least eight architects.

Edward C. N. Brett

Edward C. N. Brett was the chief architect of Los Angeles County from approximately 1940 to 1970, and worked as an architect for the County before then.[161] He designed LACO No. 1264 (Bonita Hall) in 1932 (extant).[162] His other work at Rancho Los Amigos includes designing alterations for several buildings, including LACO Nos. 1189-1199 (Patient Wards) and LACO Nos. 1202-1205 (Men's and Women's Psychiatric Wards) in 1950; LACO Nos. 1184 (General Ward 30) and 1189-1199 (Patient Wards) in 1953; and LACO Nos. 1202-1204 (Men's and Women's Psychiatric Wards) in 1956, which are all extant.[163]

Born in Coronado, California, in 1892, he received his education from the University of California in 1917.[164] He also designed the Great Hall/Long Hall at Plummer Park in then-unincorporated West Hollywood (1938), the only known structure in that city built through New Deal programs.[165]

Jacob Friedlander

Jacob Friedlander designed the Dining Hall (Refectory), part of the original core of buildings on the County Poor Farm, in 1888.[166] As of that year he had an architectural office at 104 North

160 David Gebhard, "The Myth and Power of Place," in Canizaro, Vincent. ed., *Architectural Regionalism: Collected Writings on Place, Identity, Modernity, and Tradition*, (Princeton, NJ: Princeton Architectural Press, 2007). Virginia Savage McAlester. *A Field Guide to American Houses* (New York: Alfred A. Knopf, 2013), 520-534.

161 American Institute of Architects. American Architects Directory, 1970, 101. http://public.aia.org/sites/hdoaa/wiki/Wiki%20Pages/ahd1004993.aspx. Accessed August 3, 2017.

162 USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 31, drawings for LACO No. 1264, 1932.

163 RLA Archive, Downey, California, drawings for LACO Nos. 1189-1199 and LACO Nos. 1202-1205, 1950; LACO Nos. 1202-1205, 1950; LACO No. 1184, 1953; LACO No. 1202-1204, 1956.

164 American Institute of Architects. American Architects Directory, 1970, 101. http://public.aia.org/sites/hdoaa/wiki/Wiki%20Pages/ahd1004993.aspx. Accessed August 3, 2017.

165 Los Angeles Conservancy, "Plummer Park, Great Hall/Long Hall," https://www.laconservancy.org/locations/plummer-park-great-halllong-hall. Accessed August 3, 2017.

166 Fliedner, *Centennial*, 24.

Main Street in Los Angeles, and resided at 117 Banning Street.[167] The Dining Hall (Refectory) was demolished in 1929.[168] Little else is known about Friedlander or why the Los Angeles County Board of Supervisor's awarded him the contract for the building over firm Kysor, Morgan, and Walls, who designed the remainder of the Poor Farm's original buildings.

Hudson & Munsell (Frank Dale Hudson & William A. O. Munsell)

The well-known firm of Hudson & Munsell designed LACO No. 1254 (Chapel/Computer Center) in 1907 (extant);[169] LACO No. 1262 (Dining Room, Kitchen, Staff Room) in 1913 (extant);[170] and the Milk House (non-extant). Comprised of Frank Dale Hudson and William A.O. Munsell, the firm was active in Southern California from 1895 to approximately 1925. They designed many buildings for public and private clients. Other County buildings, for example, include the Administration Building of the General Hospital (now the Coroner's Department) in 1909; the Detention Home (1910); the first Hall of Records Buildings (1908); and the Natural History Museum (1913). They also designed schools for the Los Angeles Unified School District, a Los Angeles City fire station, churches, lodges for Elks and Masons, and private homes.[171]

Frank Dale Hudson was born in 1868 in Oakland, California and received his higher education at London International College in 1885. He settled in San Francisco and worked as an architect at the offices of William Curlett until 1895, when he moved to Los Angeles and partnered with Munsell. By 1899, Mayor Fred Eaton had appointed him building inspector for a two-year tenure. He was president of the Southern California chapter of the American Institute of Architects in 1910.[172]

Born in Ohio in 1866, William A.O. Munsell's family moved frequently around the Midwest as a child. As an adult he moved to Denver, Colorado, then Portland, Oregon, where he worked as a draftsman, then Wichita, Kansas, where he worked as an architect. He moved to Los Angeles in the late 1890s. He served as president of the Los Angeles chapter of the American Institute of Architects in 1902. He also was a city judge in San Marino, California, and an artist.[173]

Kysor, Morgan, and Walls (Charles H. Kysor, Ezra Frank Kysor, Octavius Morgan, Newton James Tharp, and John A. Walls)

The famous Los Angeles firm of Kysor, Morgan, and Walls designed most of the original core of the County Poor Farm, including the North and South Wards in 1888 and the Office Building in 1889 (no longer extant).[174] The firm was active from 1887 to 1890 and was a partnership between

[167] Los Angeles City Directory, 1888.

[168] Fliedner, *Centennial*, 143.

[169] RLA Archive, Downey, California, drawings for LACO No. 1254, 1957 with original plans appended.

[170] USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 31, drawings for LACO No. 1262, 1924 with original plans appended.

[171] "Hudson and Munsell, Architects (Partnership)," Pacific Coast Architecture Database, http://pcad.lib.washington.edu/firm/530/. Accessed August 2, 2017.

[172] "Frank Dale Hudson (Architect)," Pacific Coast Architecture Database," http://pcad.lib.washington.edu/person/40/. Accessed August 2, 2017.

[173] "William A.O. Munsell (Architect)," Pacific Coast Architecture Database," http://pcad.lib.washington.edu/person/873/. Accessed August 2, 2017.

[174] Fliedner, *Centennial*, 24

architects Ezra Frank Kysor and his son Charles H. Kysor (later Kyson), Octavius Morgan, Newton James Tharp, and John A. Walls.

Ezra Kysor was born in Cattaraugus, New York, in 1835 and moved west shortly after the American Civil War. After spending some time in Virginia City, Nevada, Kysor settled in Los Angeles in 1868. He partnered with E. J. Weston before forming a partnership with Octavius Morgan in 1876.[175] Octavius Morgan was born near Canterbury, England in 1850 and migrated to the United States in 1870. After spending time in Denver, Colorado, Morgan established himself in Los Angeles in 1873. He began working as a draftsman for Ezra Kysor before becoming Kysor's partner in 1876.

Kysor and Morgan designed many notable structures throughout Los Angeles prior to Kysor's retirement around 1887, including Saint Vibiana's Roman Catholic Cathedral in 1876 as well as several business blocks along Main Street in downtown Los Angeles.[176] When Kysor retired, J.A. Walls joined the firm and the name of Kysor was retained, forming Kysor, Morgan and Walls (later becoming Morgan and Walls and then Morgan, Walls, and Morgan in 1910).[177] The firm is responsible for downtown landmarks, including the I.N. Van Nuys Building (1911) listed in the National Register. Octavius Morgan was once one of the oldest members of the American Institute of Architects on the Pacific Coast and a charter member and former president of the Southern California Architect's Association. Octavius Morgan is considered a notable architect due to his numerous contributions to the field of architecture, the development of California, and the architecture of Los Angeles.

George Low

George Low was an architect with the Los Angeles County Mechanical department, as identified in original plan sets and Los Angeles City directories.[178] He designed LACO No. 1101 (Harriman/Superintendent's House) in 1913;[179] additions to LACO No. 1205 (Men's Psychiatric Ward) in 1913;[180] LACO No.1186 (General Ward) in circa 1915;[181] LACO No. 1283 (Trunk Storage) in circa 1915[182] and remodeling of two unspecified ward buildings, which are all extant. He shared a name with a Los Angeles builder of the era, though they are unlikely to be the same person. Little else is known about George Low.

[175] Henry F. Withey and Elsie Rathburn Withey, *Bibliographical Dictionary of American Architects* (Los Angeles, CA: New Age Publishing Company, 1956), 356.
[176] Withey and Withey, 425.
[177] Withey and Withey, 426.
[178] Los Angeles City Directory, 1917, 1918, 1921.
[179] RLA Archive, Downey, California, drawings for LACO No. 1101, 1914.
[180] USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 33, drawings for LACO No. 1205, 1913.
[181] RLA Archive, Downey, California, drawings for LACO No. 1186, 1915.
[182] USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 33, drawings for LACO No. 1283, undated.

Karl Wilhelm Muck

Karl Wilhelm Muck was the Los Angeles County Architect in the latter part of the 1920s. He designed LACO No. 1295 (Kitchen and Dining Building) in 1927;[183] a pump house in 1927; LACO No. 1238 (Casa Consuelo) in 1928;[184] LACO No. 1261 (Auditorium) in 1928;[185] and, also in 1928, LACO No. 1266 (Amigos Hall).[186] He also designed the iconic Harriman Building (1930) on the North Campus.[187] With the exception of the pump house, all of these buildings are extant.

He was born in 1892 in Los Angeles to parents from Wisconsin.[188] By 1917 he was living in El Dorado, Kansas, with his wife and child and working as an architect.[189] The U.S. Census of 1920 places him and his family in Los Angeles, working as a residential architect. By 1930, he was listed as the County Architect.[190] He was laid off in 1931 due to the effects of the Great Depression on Los Angeles County's finances. His office was absorbed into the Mechanical Department to be managed by a chief architect, where it had been prior to the creation of the office of County Architect.[191]

Some other buildings he designed for the County include a health center in Santa Monica (1928); a health and welfare center in East Los Angeles (1928); structures at the County Fairgrounds in Pomona (1928); and the Alhambra Health and Welfare Center (1930).[192] Examples of homes he designed as a residential architect in El Dorado include a two-story single-family home and a seven-room "modern bungalow," both built in 1918.[193]

Montrose S. Warm

Montrose S. Warm was an architect who worked for the County Mechanical Department. In 1921 he designed LACO No. 1260 (Bathhouse and Ward);[194] in 1924 he designed an addition to the dining room in one of the Men's Psychiatric Wards, a new entrance at the west side of LACO No. 1203 (Women's Psychiatric Ward), inclines for various buildings throughout the District, and an Employee Building;[195] in 1925 he designed LACO Nos. 1187 and 1188 (General Wards 60 and

183 USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 37, drawings for LACO No. 1295, 1927.

184 RLA Archive, Downey, California, drawings for LACO No. 1238, 1928.

185 RLA Archive, Downey, California, drawings for LACO No. 1261, 1928.

186 RLA Archive, Downey, California, drawings for LACO No. 1266, 1928.

187 "Initial Project in Proposed Building Program," *Los Angeles Times*, March 30, 1930.

188 U.S. Census, 1920. Ancestry.com.

189 World War I draft registration card, 1917. Ancestry.com.

190 U.S. Census, 1920, 1930. Ancestry.com.

191 "County Office Will Be Closed," *Los Angeles Times*, July 21, 1931.

192 "Health Center Projected at Beach," *Los Angeles Times*, January 22, 1928; "County Health and Welfare Center to Rise," *Los Angeles Times*, April 15, 1928; "Exhibits Building Announced," *Los Angeles Times*, May 6, 1928; "Valley's Emergency Hospital," *Los Angeles Times*, August 15, 1930.

193 "Walnut Hill Improving," *El Dorado Daily Republican* (El Dorado, Kansas), March 22, 1918; "Modern Bungalow," *El Dorado Daily Republican* (El Dorado, Kansas), May 31, 1918.

194 USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 31, drawings for LACO No. 1203 and other buildings, 1924.

195 USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 31, drawings for LACO No. 1260, 1921.

70);[196] and in 1926 he designed LACO Nos. 1197, 1198, and 1199 (Patient Wards 209, 210, and 211).[197] With the exception of the Employee Building, all of these buildings extant.

Further information on Warm is sparse. The 1908 San Francisco City directory identifies him as a draftsman working with his father Eugene M. S. Warm at their building company Warm and Son, located at Eugene's home at 501 Anderson Street. Montrose's home at 506 Ellsworth Street was nearly adjacent, likely demonstrating a close working relationship with his father.[198] It is unknown when or why he began working with Los Angeles County, or what further buildings he designed.

Parker Orasmus Wright, Jr.

Parker Orasmus Wright, Jr., designed four staff cottages that were built in 1918. Two of them (LACO Nos. 1121 and 1123) are still extant.[199] He was born in New York in 1873, and worked with the architectural firm Wright and Gentry before striking out on his own. He seems to have had much of his work in the Long Beach area. Other buildings he designed include the Reliance Motion Picture Company's film vault in Hollywood (1914); Long Beach Unified School District's Horace Mann School (1922); 1st Methodist Episcopal Church in Long Beach (1924); Los Angeles Unified School District's Figueroa Street Elementary School (1925); the Scottish Rite Cathedral in Long Beach (1926); the York Rite Temple in Long Beach (1927); and the Long Beach Fire Station #8 (1929). The Church and Scottish Rite Cathedral and Long Beach Historic Landmarks.[200]

Research

Extensive archival research and documentation has been previously prepared for the District. Pertinent background documents were reviewed to develop an understanding of the history, construction, and alterations of the District. Existing documentation was supplemented with additional research as necessary. An intensive pedestrian survey was conducted to document the existing conditions of the District utilizing the survey methodology of the State Office of Historic Preservation. In addition, the following tasks were performed in support of the preparation of this Report:

- Review of previous evaluations and associated documentation of the District by HRG (1995), Post/Hazeltine Associates (2004), and Sapphos (2007-2011);
- Review of past CEQA documentation including the 2010 Data Center EIR and 2016 Sports Center Categorical Exemption and related supporting technical documentation;
- Review of previous correspondence between the Los Angeles Conservancy and the County;

196 RLA Archive, Downey, California, drawings for LACO Nos. 1187 and 1188, 1925.
197 RLA Archive, Downey, California, drawings for LACO Nos. 1197-1199, 1926.
198 San Francisco City Directory, 1908.
199 USC Libraries Special Collections, Rancho Los Amigos Hospital Records 0407, Box 33, drawings for LACO Nos. 1121 and 1123, 1918.
200 "Parker O. Wright Jr. (Architect)," Pacific Coast Architecture Database, http://pcad.lib.washington.edu/person/932/. Accessed August 4, 2017.

- Research at the following libraries, archives, and historical societies: Los Angeles Public Library; USC Libraries Special Collections; Rancho Los Amigos Archive; Benjamin and Gladys Thomas Air Photo Archives, University of California, Los Angeles (UCLA); United States Geological Survey (USGS); and Downey Historical Society;
- Research utilizing Sanborn fire insurance maps, United States Census records, historic photographs and aerials, newspaper and journal articles, historic and geologic maps, and historic site and architectural plans;
- Environmental Data Resources (EDR) search to obtain historic maps and aerial photographs;
- Review and analysis of ordinances, statutes, regulations, bulletins, and technical materials relating to federal, state, and local historic preservation, designation assessment processes, and related programs;
- And evaluation of the District based upon criteria used by the National Register and California Register.

SCCIC Records Search

A records search was conducted on June 13, 2017 at the California Historical Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC) housed at the California State University, Fullerton. The records search included a review of all previous studies within a one-half-mile radius of the subject property, and previously-documented historic architectural resources within a quarter-mile radius of the subject property.

The records search results indicate that two historic architectural resources (P-19-186110 and -189330) have been previously recorded within a ¼-mile radius of the subject property (**Table 3**). Resource P-19-189330 encompasses the boundaries of the subject property, while resource P-19-186110 is located immediately adjacent (approximately 35 feet west) to the subject property. Resources P-19-189330 and P-19-186110 are described in more detail below.

TABLE 3
PREVIOUSLY RECORDED RESOURCES

P-Number (P-19-)	Other Designation	Description	Eligibility
P-19-186110	30-176630; C-Los Angeles-A-1	Union Pacific Railroad	3S
P-19-189330	Los Angeles County Poor Farm	Rancho Los Amigos Historic District	2S2

2S2: Individual property determined eligible for NR by a consensus through Section 106 process. Listed in CR.
3S: Appears eligible for NR as an individual property through survey evaluation.

P-19-186110 – Southern Pacific Railroad/Union Pacific Railroad

Resource P-19-186110 was originally recorded in 1999 and consists of a standard gauge railroad (with associated features including railroad stations, sidings, spurs, and railyards) that was part of the first transcontinental railroad. The railroad is composed of smaller lines, such as the Pacific Electric, the Los Angeles and San Pedro Railroad, and the Los Angeles and Salt Lake Railroad, which were absorbed by the Southern Pacific in the 1880s. In the 1990s, the Union Pacific

Railroad acquired the holdings of the Southern Pacific. This resource was previously recommended eligible for the National Register under Criterion A for its association with the development Los Angeles as a major business center and under Criterion B for its association with important historical figures, including the Big Four (Mark Hopkins, Collis P. Huntington, Leland Stanford, and Charles Crocker).[201] A small portion (approximately 770 feet long) of this resource is located immediately adjacent (approximately 35 feet west) of the subject property.

P-19-189330 – Rancho Los Amigos Historic District

Resource P-19-189330 consists of the Rancho Los Amigos Historic District (District). The District is located on the subject property and includes facilities related to the County of Angeles Poor Farm and Rancho Los Amigos. The District was originally recorded in 1995 by Historic Resources Group (HRG) in 1995.[202] At that time, the District was determined eligible for the National Register under Criterion A by a consensus through the Section 106 process and was listed in the California Register under Criterion 1 for its association with the early healthcare of the County's indigent population and later treatment of patients with chronic illnesses or mental disorders. The District was resurveyed in 2004 by Post/Hazeltine Associates and recommended ineligible due to a lack of integrity. It was resurveyed again in 2007-2011 by Sapphos Environmental, Inc.[203] (Sapphos), who concurred with the original eligibility determination. As of 2011, there were 68 contributors within the District.[204] The following section provides additional details about these previous studies.

Previous Studies

Three previous evaluations have been conducted of the District and are included in **Figures 4, 5,** and **6**. In 1995, HRG conducted a survey of earthquake damaged properties for the purpose of Section 106 review by the Federal Emergency Management Agency (FEMA) after the 1994 Northridge Earthquake and documented the subject property on Department of Parks and Recreation (DPR) forms.[205] [206] [207] HRG identified the subject property as a historic district eligible under National Register Criterion A and California Register Criterion 1. HRG identified the period of significance as 1888-1945.[208] Their survey included documentation of 102 buildings, structures, and features within the boundaries of the District, of which 76 were identified as contributors (Figure 4). HRG did not identify any individually eligible resources in the District.

[201] Shahira Ashkar, Cultural Resources Inventory Report for Williams Communications, Inc. Proposed Fiber Optic Cable System Installation Project, Los Angeles to Anaheim, Los Angeles and Orange Counties, 1990 (SCCIC# LA-04834).

[202] McAvoy, 1995.

[203] Sapphos, 2011.

[204] Sapphos, 201.

[205] A full report documenting survey methods and results was not produced. One source (Fleidner 1990) is cited on the DPR forms.

[206] McAvoy, 1995.

[207] Post/Hazeltine, 2004.

[208] McAvoy, 1995.



SOURCE: Historic Resources Group, 1995

Rancho Los Amigos South Campus

Figure 4
Map Indicating Previous Findings (Historic Resources Group, 1995)

ESA



SOURCE: Post/Hazel Associates, 2004

Rancho Los Amigos South Campus

Figure 5
Map Indicating Previous Findings (Post/Hazeltine Associates, 2004)

ESA



SOURCE: Sapphos Environmental, Inc., 2007-2010

Rancho Los Amigos South Campus

Figure 6
Map Indicating Previous Findings (Sapphos Environmental, Inc., 2007-2010)

ESA

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The District was determined eligible for National Register by consensus with SHPO through Section 106 process and listed in the California Register on September 30, 1996 (assigned a California Historical Resources Status Code of 2S2).[209]

Nearly ten years later, in 2004, the County of Los Angeles Administrator's Office (CAO) contracted with Post/Hazeltine Associates to resurvey the District. to determine if it remained eligible as a historic district. Their study included 1) preparation of a historical context and site history; 2) survey and documentation of existing conditions; 3) assessment of integrity of individual buildings and the District as a whole; 4) evaluation of the current eligibility of the District for the National Register and California Register under all four criteria (A/1, B/2, C/3, and D/4); and 5) preparation of a report and DPR 523 addendum. Post/Hazeltine Associates recommended it ineligible for listing in the National Register and California Register due to a lack of integrity.[210] Post/Hazeltine Associates recommended the District not eligible under Criterion A/1 since almost all of the original agricultural facilities and staff cottages had been demolished, and the property no longer conveyed its significance as a poor farm.[211] They also recommended the District not eligible under Criterion B/2 due to a lack of significant association with particular individuals.[212] The District as a whole was found to lack sufficient integrity to be eligible under Criterion C/3.[213] Under Criterion D/4, they found that the property was well documented and did not have the potential to contribute to our understanding of history.[214] They identified 11 buildings and structures as individually eligible under National Register Criterion C and California Register Criterion 3: LACO Nos. 1100, 1101, 1177, 1178, 1238, 1261, 1262, 1263, 1300, 1301, and 1302 (Figure 5).

In 2006, the County of Los Angeles Chief Executive Office retained Sapphos to resurvey the District and to assess the feasibility of rehabilitation and adaptive reuse of historic buildings, structures, and features within the District. The survey update was undertaken to assist the County with preparation of a potential Campus Plan to accommodate redevelopment of portions of the former Rancho Los Amigos National Rehabilitation Center, and to inform a corresponding Specific Plan that would be adopted by the City of Downey to update zoning to reflect the potential Campus Plan. However, the Campus Plan was never enacted. The survey update also resolves contradictory results from two previous historic surveys, in 1995 by HRG, and in 2004 by Post/Hazeltine, discussed above.[215] The objectives of the survey update were to examine the existing District boundaries, develop a historic context and period of significance, and to re-evaluate the significance and integrity of the District as a whole as well as individual buildings and structures.[216]

[209] Office of Historic Preservation, *Directory of Properties in the Historic Property Data File for Los Angeles County*, pg. 99, April 5, 2012. Document on file at SCCIC, Fullerton, CA.
[210] Post/Hazeltine Associates, 2004.
[211] Post/Hazeltine Associates, 2004, pg. 114.
[212] Post/Hazeltine Associates, 2004, pg. 114.
[213] Post/Hazeltine Associates, 2004, pg. 115.
[214] Post/Hazeltine Associates, 2004, pg. 115.
[215] Sapphos, 2011, pg. 1-1.
[216] Sapphos, 2011, pg. 1-1.

From 2007-2011, Sapphos resurveyed the District and indicated that it "exhibited sufficient integrity to maintain its significance under National Register Criterion A and California Register Criterion 1 for its important role in the public welfare and healthcare history of the County of Los Angeles."[217] Sapphos updated the District boundary and recommended that the period of significance be extended to 1952. They documented 117 buildings, structures, and features, 68 of which were identified as contributors and 49 of which were identified as non-contributors (Figure 6). Sapphos also recommended nine buildings and structures individually eligible for listing in the National Register under Criterion C and California Register under Criterion 3 for architectural merit: LACO Nos. 1100, 1101, 1177, 1238, 1262, 1263, 1300, 1301, and 1302 (Figure 6).

Historic Maps and Aerial Photographs

Historic maps and aerial photographs were examined to provide historical information about land uses of the subject property. Sources consulted include the U.S. Geological Survey (USGS) aerial photography and topographic map databases, University of California – Los Angeles (UCLA) Benjamin and Gladys Thomas Air Photo Archive, University of Southern California (USC) Libraries Special Collections, and NETR Online. A site-specific search was also requested from EDR. The following map set depicts the chronological development of the subject property from 1923 to 1963 (Figures **7** to **13**).

Environmental Data Resources, Inc.

Available topographic maps include the 1896, 1899, 1902, 1942, 1943, and 1947 Downey 15-minute quadrangles; 1923, 1925, and 1936 Bell 7.5-minute quadrangles; 1949, 1952, 1964, 1972, 1981, and 2012 South Gate 7.5-minute quadrangles. Sanborn Fire Insurance maps were available for the years 1929 and 1932 (see Figure 10). Historic aerial photographs were available for the years 1928 (see Figure 9), 1938, 1954 (see Figure 12), 1963 (see Figure 13), 1961, 1972, 1977, 1981, 1989, 1994, 2002, 2005, 2009, 2010, and 2012 (EDR, 2017).

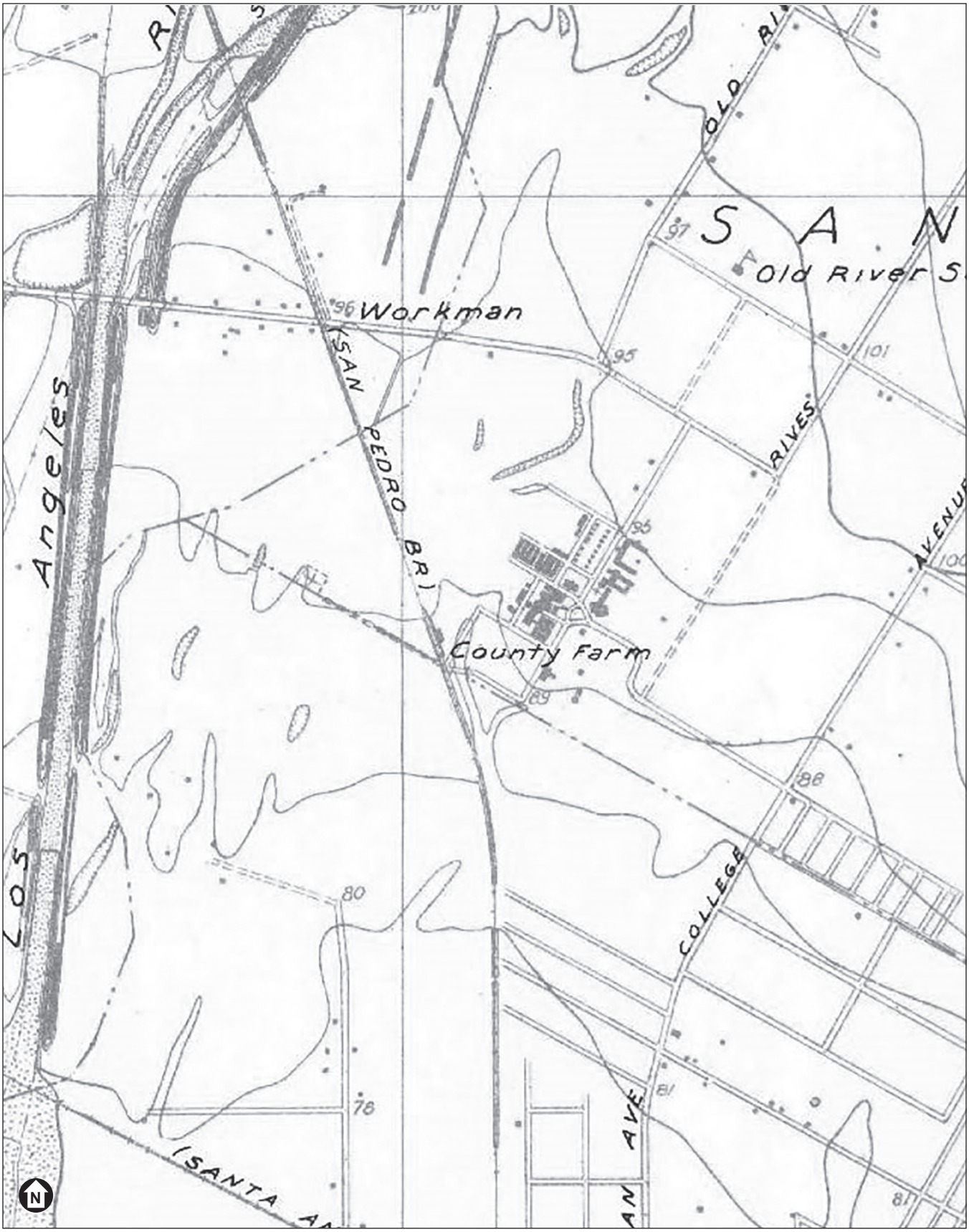
USGS Aerial Photography Database

The earliest aerial photograph of the property on file with the USGS was from 1994, showing a dense urban area surrounding the site. The database included additional aerial photographs of the property dating from 2004, 2008, 2010, and 2013.

USGS Topographic Map Database

The USGS Topographic Map Database contains several maps of the area dating from as early as 1896 to 1964 and range in scale from 1:24,000 to 1:250,000. Small scale topographic maps (1:250,000) drawn in 1901, 1904, and 1949 show a broad overview of the Los Angeles area but the Poor Farm is not depicted. Topographic maps (1:62,500) drawn in 1896, 1899, 1902, 1942, and 1943 provide a broad overview of the town of Downey and its surrounding communities. Located southeast of Downey along the Los Angeles Terminal rail line is a small structure labeled "Poor Farm Station."

[217] Sapphos, 2011, pg. 1-1.

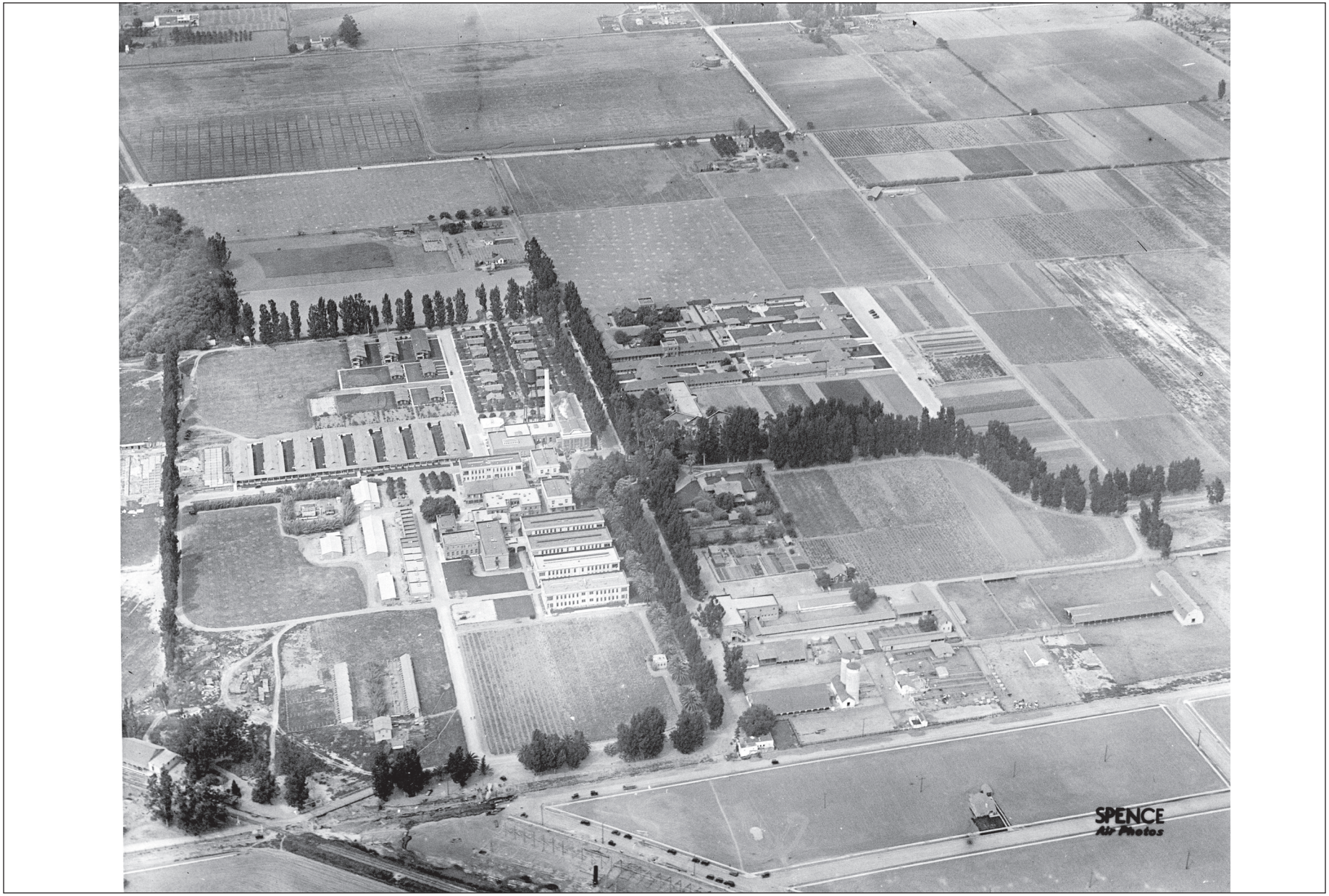


SOURCE: USGS

Rancho Los Amigos South Campus

Figure 7
Topographic Map Depicting
Rancho Los Amigos and Surrounding Area, 1923

ESA



D170230.00

SOURCE: University of Southern California Libraries, Special Collections

Rancho Los Amigos South Campus

Figure 8
Historic Aerial Image of Rancho Los Amigos, 1926

ESA

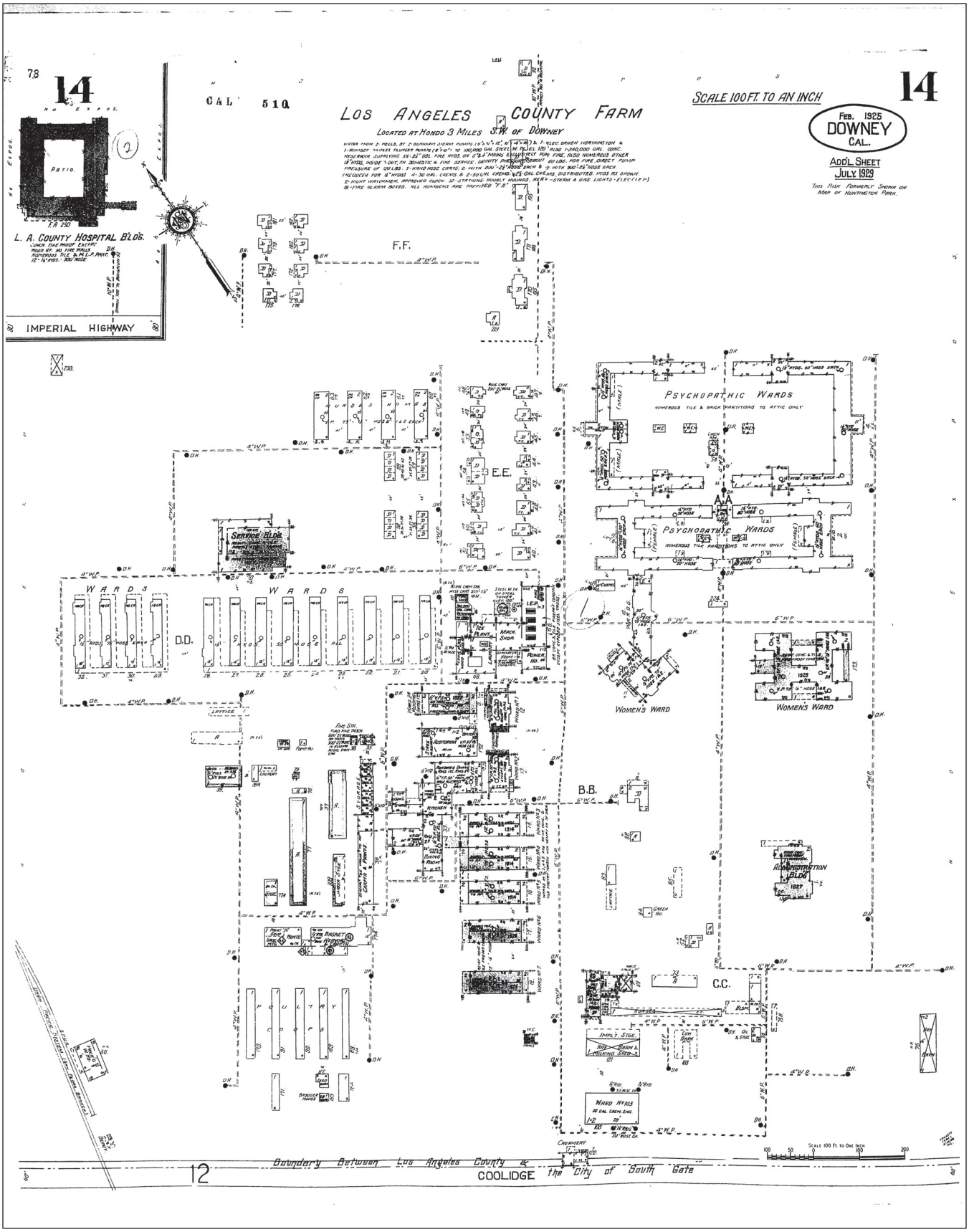


SOURCE: EDR, 2017

Rancho Los Amigos South Campus

Figure 9
Aerial View of Rancho Los Amigos, 1928

ESA

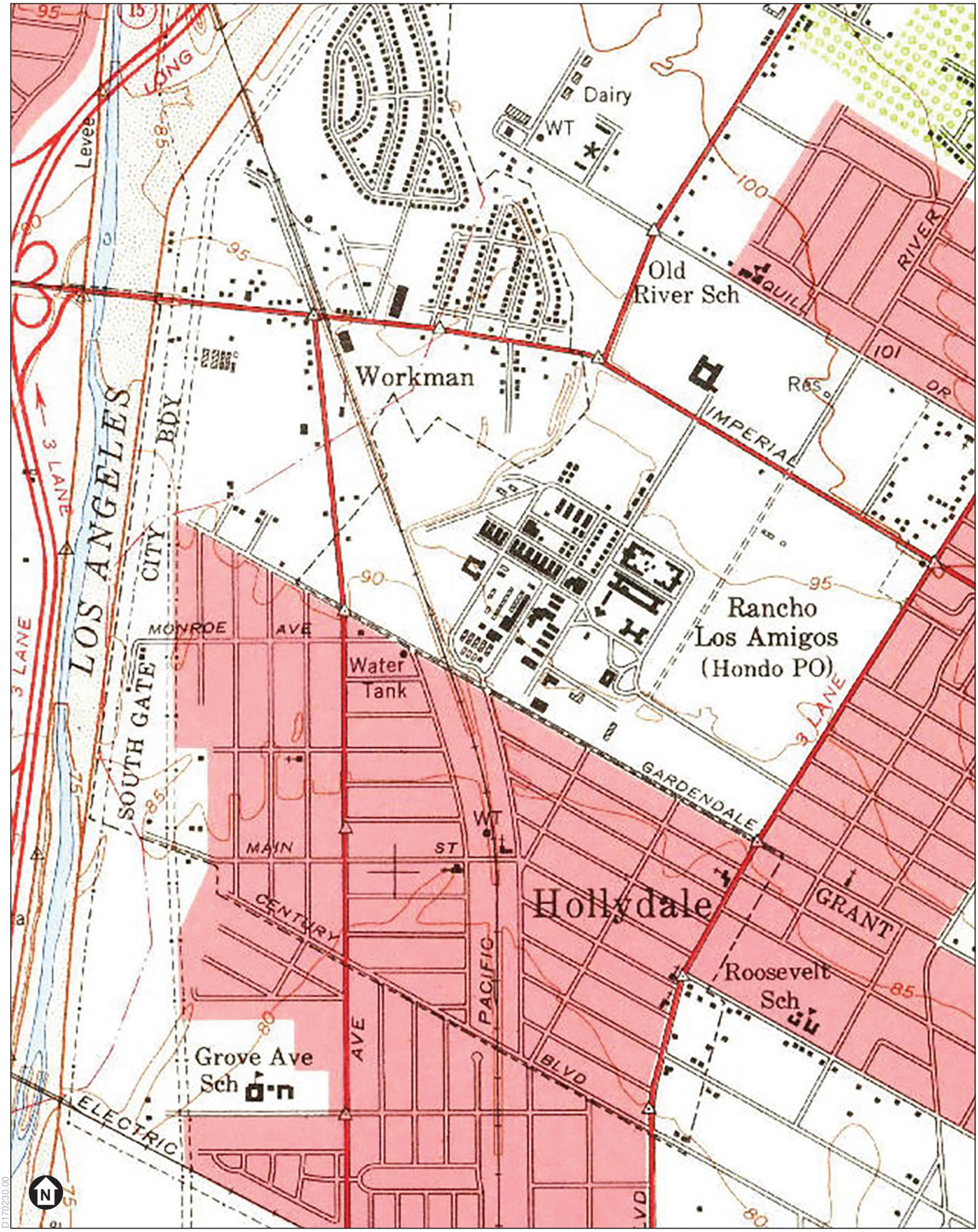


SOURCE: Los Angeles Public Library

Rancho Los Amigos South Campus

Figure 10
Sanborn Map for Rancho Los Amigos, 1932

ESA



SOURCE: USGS

Rancho Los Amigos South Campus

Figure 11
Topographic Map Depicting
Rancho Los Amigos and Surrounding Area, 1949

ESA



SOURCE: EDR, 2017

Rancho Los Amigos South Campus

Figure 12
Aerial View of Rancho Los Amigos, 1954

ESA



SOURCE: EDR, 2017

Rancho Los Amigos South Campus

Figure 13
Aerial View of Rancho Los Amigos, 1963

ESA

Beginning in 1943, the maps of this scale label the property as the County Hospital. Larger scale topographic maps from 1923 (see Figure 7), 1925, 1936, 1949 (see Figure 11), and 1964 show a closer view of Downey and the County Farm, including the many of the individual building footprints.

UCLA Benjamin and Gladys Thomas Air Photo Archive

UCLA's Benjamin and Gladys Thomas Air Photo Archive contained three aerial photos of the property and surrounding area. The earliest aerial image is dated 1926 (see Figure 8) and shows a detailed overview of the County Farm and the nearby agricultural fields. Additional aerial photographs from 1929 and 1955 show the property at a distance among the broader context of the surrounding fields and residential development.

USC Libraries Special Collections

An extensive archive of Rancho Los Amigos related material is housed within the USC Libraries Special Collections. The archive includes several aerial images of the property dating from 1929 to 1983. The earliest aerial photographs in the collection were taken by the County Farm's superintendent, William Harriman, in 1929. They provide a candid view of the subject property during its greatest period of transition in the 1920s. Additional aerial photographs from 1929 depict dairy facilities, which were constructed away from the subject property, closer to the present location of the Rancho Los Amigos North Campus. An aerial photograph dated 1930 provides a detailed view of the County Farm with the beginnings of the north campus and new dairy facilities in the distance. Aerial photographs from 1963, 1975, 1982, and 1983 provide a detailed images of Rancho Los Amigos among the encroaching suburban development in the surrounding area.

NETR Online

NETR Online (www.historicaerials.com) provided aerial images of the property from 1954 to 2012. Also included in NETR Online's database were topographic maps from 1896 to 1988, which appear to be similar to those found among the USGS database.

Archival Research

Sources conducted to develop the historical context and architectural history of the subject property include the County of Los Angeles' Rancho Los Amigos Facilities Management Department archives (Warm, Montrose S.), the University of Southern California (USC) Libraries Special Collections, the Downey Historical Society, the Downey City Library, and the Los Angeles County Department of Public Works.

Material from the RLA Archives is located in the Central Plant on the RLA North Campus. Its collections comprise site plans, maps, and architectural plans for approximately 35 buildings and structures on the subject property, most of which are extant. It was especially helpful in developing architectural histories of the subject property. The RLA Archives were consulted in June and July of 2017.

The USC Libraries Special Collections are located primarily at the Doheny Memorial Library on the main USC campus southwest of downtown Los Angeles. Collection number 0407 of the California Social Welfare Archives, titled the Rancho Los Amigos Hospital Records, was consulted. Dating from circa 1887 to 1999, the collection includes "administrative and financial records, internal and external publications generated by Rancho staff, retrospective and historical accounts, oral history tapes, blueprints, plans, and similar material. The collection includes large numbers of photographs, both of staff members and therapeutic techniques. Likewise, there are many films and audio-recordings on issues involving physical therapy and rehabilitation."[218] Within the collection, boxes 14, 15, 17, 19-23, and 25-41 contained photographs, publications, reports, maps, and architectural plans that helped develop the historical context and architectural history of the Project Site. The Special Collections was consulted in July and August of 2017.

The Downey Historical Society is located at 12540 Rives Avenue in Downey, immediately southeast of the North Campus. Its holdings are wide-ranging and include yearbooks, periodicals, photographs, books, memorabilia, and other resources relating to the history of Downey. Researchers consulted periodicals and photographs related to the subject property, which were helpful in developing its historical context. The Downey Historical Society was consulted in July and August of 2017.

The Downey City Library, located at 11121 Brookshire Avenue in Downey, and the Los Angeles County Department of Public Works, located at 900 Fremont Avenue in Alhambra, were also visited. The Downey City Library contained information already gleaned from other sources. The Department of Public Works provided building permits for Rancho Los Amigos, but these were mainly from the second half of the twentieth century and mostly pertained to the North Campus. Therefore, these two sources did not contribute information to ESA's research efforts. Both of these locations were visited in July of 2017.

Historic Resources Survey

Methods

A historic resources survey update of the subject property was conducted on June 19-23, 2017 by ESA architectural historians Amanda Kainer, Adam Rajper, Christian Taylor, and Max Loder. Dr. Margarita Jerabek attended the survey kick-off, provided an orientation for staff, and provided senior guidance for the duration of fieldwork. The survey was aimed at documenting the current conditions of all existing buildings, structures, and features on the subject property and documenting the overall landscape. The subject property was documented using digital photography and hand-written notes.

[218] John Howard Fowler, "Finding Aid for the Rancho Los Amigos Hospital records 0407" (Los Angeles: USC Libraries Special Collections, 2002).

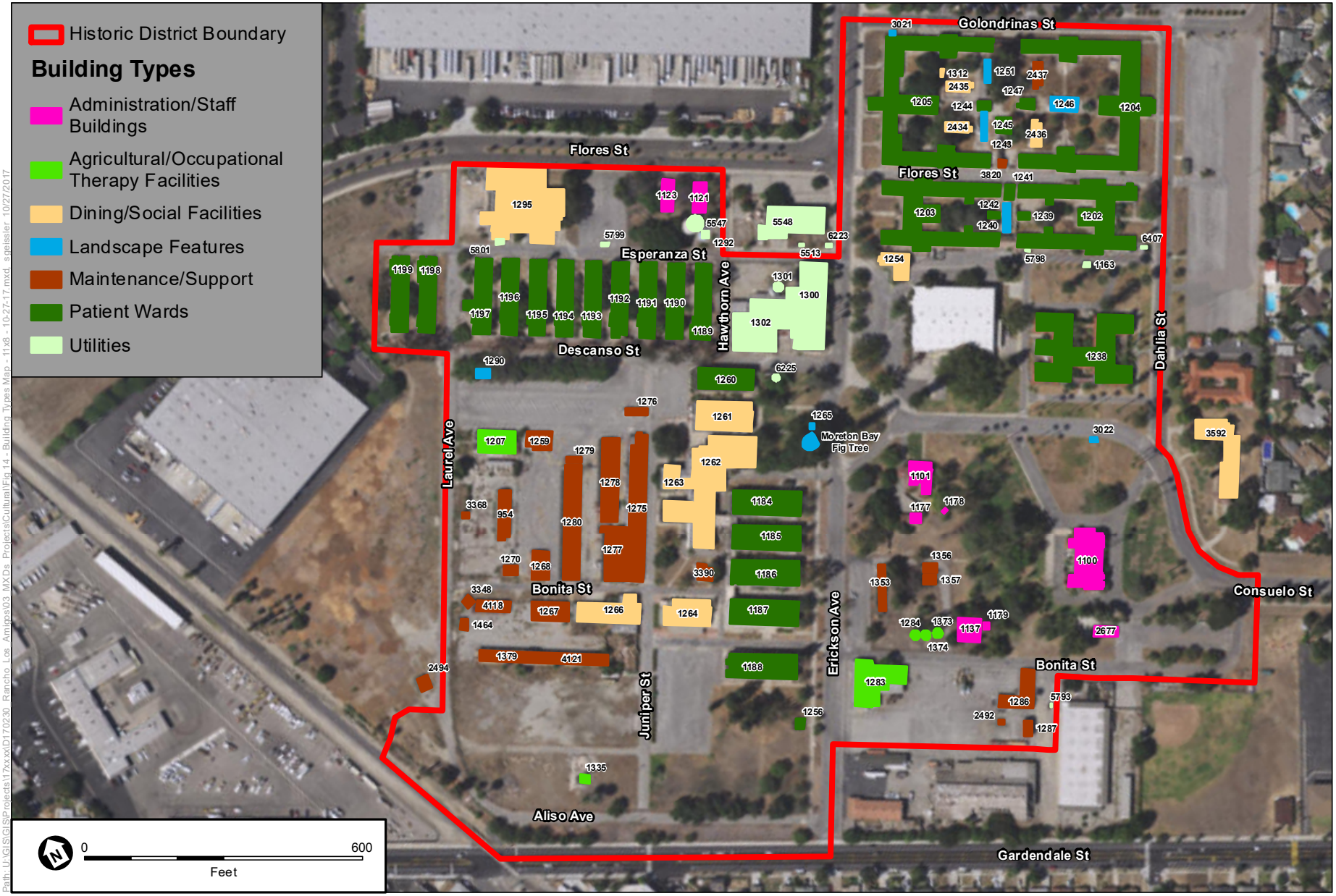
A DPR 523D form (District Record) documenting current evaluation findings was prepared and is included in **Appendix C**. All survey work was conducted in accordance with the California Office of Historic Preservation's Instructions for Recording Historical Resources (March 1995). Buildings, structures, and features that have undergone substantial change in condition since the previous survey, or about which new information was found, resulting in a change in eligibility, were reevaluated and documented on DPR 523 series forms, including DPR 523A (Primary Record), DPR 523B (Building, Structure, Object), and 523L (Continuation Sheets). These forms are included in **Appendix D**. The three previous evaluations of the District, including DPR 523 series forms, by HRG (2004), Post/Hazeltine Associates (2004), and Sapphos (2007-2011) are provided in **Appendices E, F, and G**, respectively.

The intensive level pedestrian survey of the District documented 109 buildings, structures, and features.

Rancho Los Amigos Historic District Description

The District is an institutional district located in Los Angeles County, in the southwest portion of the city of Downey. Based on the current survey conducted in June of 2017, the District contains 109 buildings, structures, and features. Development in the District is primarily institutional, containing mostly one- and two story patient wards, surrounded by support and administrative facilities. While the subject property first began operating as a poor farm in 1888, the majority of the buildings that remain on the property were constructed between 1907 and 1932, and were largely designed in the Renaissance Revival style and brick vernacular, although the District also exhibits examples of Craftsman, Neoclassical Revival, Spanish Colonial Revival, and modest utilitarian buildings. The District is roughly bound by Golondrinas Street, Erickson Avenue, and Flores Street to the north, Dahlia Avenue and Consuelo Street to the east, Bonita Street, Erickson Avenue, and Aliso Street to the south, and Laurel Street to the west.

As presented in **Table 4** below, seven different building types, which together allowed the facility to operate as a poor farm and later as a long-term healthcare facility, are found in the District: Administration and Staff Buildings, Patient Wards, Dining and Social Facilities, Utilities, Agricultural and Occupational Therapy Facilities, Maintenance and Support Buildings, and Landscape Features (**Figure 14**). The District occupies flat terrain with streets generally arranged in a grid pattern. The District is traversed by several streets including Consuelo Street, Bonita Street, Descanso Street, Esperanza Street, and Flores Street. The streets feature concrete curbs and sidewalks with landscaped parkways and original lampposts. A landscaped traffic circle occupies the intersection of Consuelo Street and Erickson Avenue.



SOURCE: NAIP, 2016 (Aerial).

Rancho Los Amigos South Campus

Figure 14

Building Types Map

ESA

TABLE 4
BUILDING TYPES ASSOCIATED WITH RANCHO LOS AMIGOS

Building Type	Number of Associated Buildings, Structures, and Features	LACO Nos.
Administration/Staff Buildings	9	1100, 1101, 1121, 1123, 1137, 1177, 1178, 1179, 2677
Patient Wards	29	1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1202, 1203, 1204, 1205, 1238, 1239, 1241, 1242, 1244, 1245, 1247, 1256, 1260
Dining/Social Facilities	12	1254, 1261, 1262, 1263, 1264, 1266, 1295, 1312, 2434, 2435, 2436, 3592
Utilities	15	1163, 1292, 1300, 1301, 1302, 5513, 5547, 5548, 5793, 5798, 5799, 5801, 6223, 6225, 6407, 7000
Agricultural/Occupational Therapy Facilities	6	1207, 1283, 1284, 1335, 1373, 1374
Maintenance/Support	27	954, 1259, 1267, 1268, 1270, 1275, 1276, 1277, 1278, 1279, 1280, 1286, 1287, 1353, 1356, 1357, 1379, 1464, 2437, 2492, 2494, 3348, 3368, 3390, 3820, 4118, 4121
Landscape Features	9	1240, 1243, 1246, 1251, 1265, 1290, 3020, 3022, Fig Tree, Site Plan
Total	**109**	

SOURCE: ESA Site Survey (2017)

Administration/Staff Buildings

These buildings represent the subject property's administrative and staff functions and generally date from the Development of Rancho Los Amigos Era (1907-1932). Primarily located in the southeast and northwest portions of the District, these buildings feature architectural styles including the Craftsman and Spanish Colonial Revival styles. A total of nine buildings within the District boundary fall within this type. During the Development of Rancho Los Amigos Era (1907-1932), the administrative core of the District shifted from the vicinity of the area presently occupied by LACO NO. 1261 (Auditorium) to the south side of Consuelo Street. The construction of LACO No. 1100 (Administration/Safety Police Building) in 1926 reflects this (**Figure 15**). Overlooking Consuelo Street and featuring the Spanish Colonial Revival style, LACO No. 1100 served as the subject property's second and last administrative center.

Extant staff-related buildings are Craftsman style staff residences, including LACO No. 1137 (Dairyman's House) built in 1907, and LACO Nos. 1121 and 1123 built in 1921 and 1924, respectively (**Figure 16**). The Superintendent's Residence/Harriman House (LACO No. 1101), built in 1915 is no longer extant after it was destroyed in an arson fire on June 26, 2017.



Rancho Los Amigos South Campus

SOURCE : ESA, June 2017

Figure 15
Primary elevation of the Administration Building (LACO No. 1100), View west



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 16
West elevation a staff cottage (LACO No. 1121), View Southeast

Patient Wards

These buildings represent the subject property's patient wards, as well as related facilities such as toilet buildings, and all date from the Development of Rancho Los Amigos Era (1907-1932).

Located in the northeast, south, and northwest portions of the District, these buildings feature architectural styles including the Renaissance Revival and Brick Vernacular and Colonial Revival styles. A total of 29 buildings within the District boundary fall within this type. The Patient Wards found throughout the District can be divided into three main groups.

The first group consists of four Renaissance Revival and Brick Vernacular U-shaped psychiatric wards at the northeast corner of the District. LACO No. 1205 (Men's Psychiatric Ward), built in 1909 and given a U-shape in 1916, is the oldest. The U-shape of LACO No. 1205 is replicated in the design of three additional adjacent wards: LACO No. 1203 (Women's Psychiatric Ward) built in 1919, LACO No. 1202 (Women's Psychiatric Ward) built in 1924, and LACO No. 1204 (Men's Psychiatric Ward) also built in 1924 (**Figure 17**). LACO No. 1204 was partially damaged by arson-related fire in February 2017 that affected the southern half of the building and a portion of the roof.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 17
East Elevation of the Men's Ward (LACO No. 1204), Fire Damage Visible on Roof, View Southwest

The second group consists of a row of five identical two-story general wards located on the west side of Erickson Avenue, just north of its southern terminus, without a distinct style. LACO Nos. 1184 and 1185, built in 1913, are the oldest and sit at the north end of the row (**Figure 18**).

LACO No. 1186 (built in 1916), LACO No. 1187 (built in 1926), and LACO No. 1188 (built in 1928) were added later, completing the row of wards.



Rancho Los Amigos South Campus
SOURCE: ESA, June 2017

Figure 18
East and North Elevations of a Patient Ward (LACO No. 1184), View Southwest

Just south of the first group of wards described above stands LACO No. 1238 (Casa Consuelo), designed in the Spanish Colonial Revival style and constructed in 1930 (**Figure 19**).



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 19
East Elevation of the women's patient ward, Casa Consuelo (LACO No. 1238), View West

The third group consists of eleven cottage-style patient wards constructed during the Development of Rancho Los Amigos Era (1907-1932). Located in the northwest portion of the District, these buildings demonstrate Craftsman style influences. With similar designs, these buildings include nine cottages on the east side of Laurel Street, connected by a long verandah along their primary (south) elevations, and two cottages on the west side of Laurel Street, also unified by a verandah fronting their primary (south) elevations. The cottage-style patient wards on the subject property were constructed in three phases. The first phase included the construction of LACO Nos. 1189, 1190, 1191, and 1192 in 1923 (**Figures 20 and 21**). During the second phase in 1926, LACO Nos. 1193, 1194, and 1195 were built. Finally, in 1928, as part of the third phase, LACO Nos. 1196, 1197, 1198, and 1199 were added.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 20
South elevation of one of the cottage-style Patient Wards (LACO No. 1192), View North



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 21
Overview of cottage-style Patient Ward grouping (LACO No. 1189 and 1190), View Northwest

Dining/Social Facilities

These buildings represent the subject property's social activities, including dining and entertainment, and generally date from the Development of Rancho Los Amigos Era (1907-1932). Primarily located in the central portion of the District, these buildings feature architectural styles including the Renaissance Revival and Brick Vernacular and Spanish Colonial Revival styles. A total of 12 buildings within the District boundary fall within this type. Examples include LACO No. 1263 (Commissary and Receiving Room) designed in the Renaissance Revival and Brick Vernacular style and built between 1913 and 1924, LACO No. 1262 (Dining Room, Kitchen, Staff Room) designed in the Renaissance Revival and Brick Vernacular style and built between 1913 and 1926 (**Figure 22**), LACO No. 1261 (Auditorium) built in 1928 (**Figure 23**), LACO No. 1264 (Bonita Hall) designed in the Spanish Colonial Revival style and built in 1932 (**Figure 24**). LACO Nos. 1263 and 1262 have experienced recent incidents of arson, resulting in damage to some of their interior and exterior features.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 22
East and South Elevations of the Dining Room, Kitchen and Staff Room (LACO No. 1262), View Northwest



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 23
East Elevation of the Auditorium (LACO No. 1261), View West



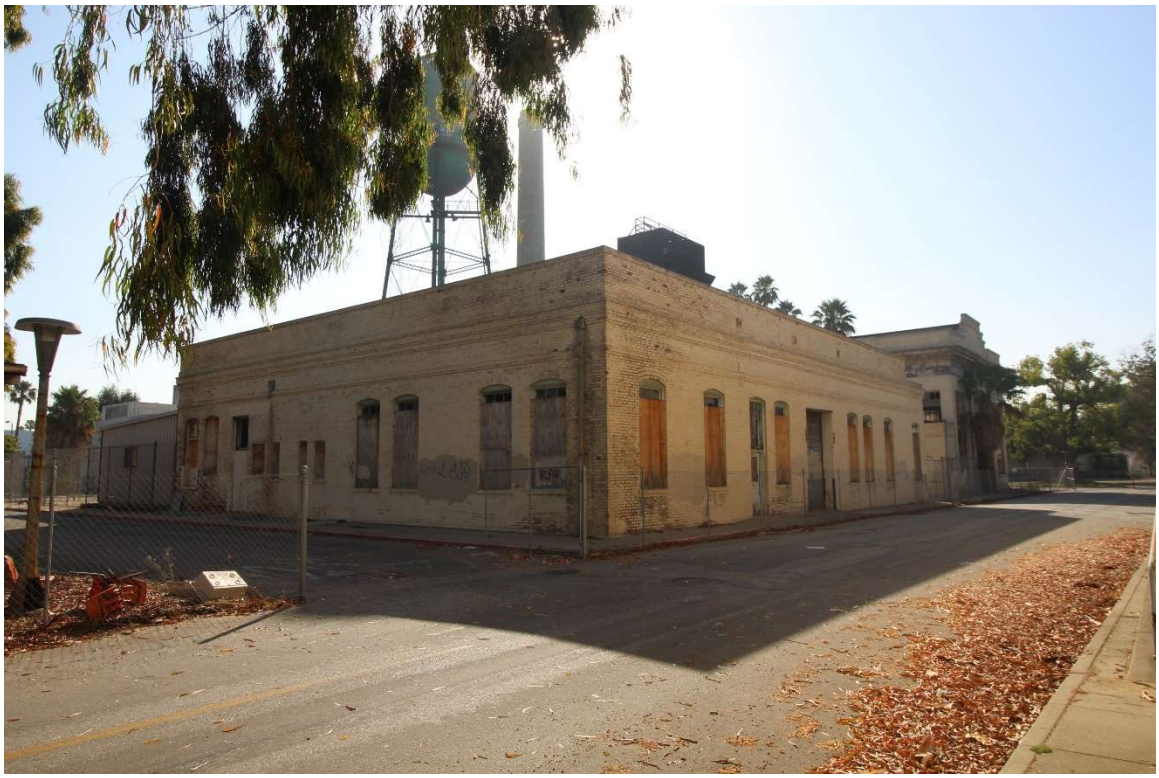
Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 24
East and South Elevations of Bonita Hall (LACO No. 1264), View North

Utilities

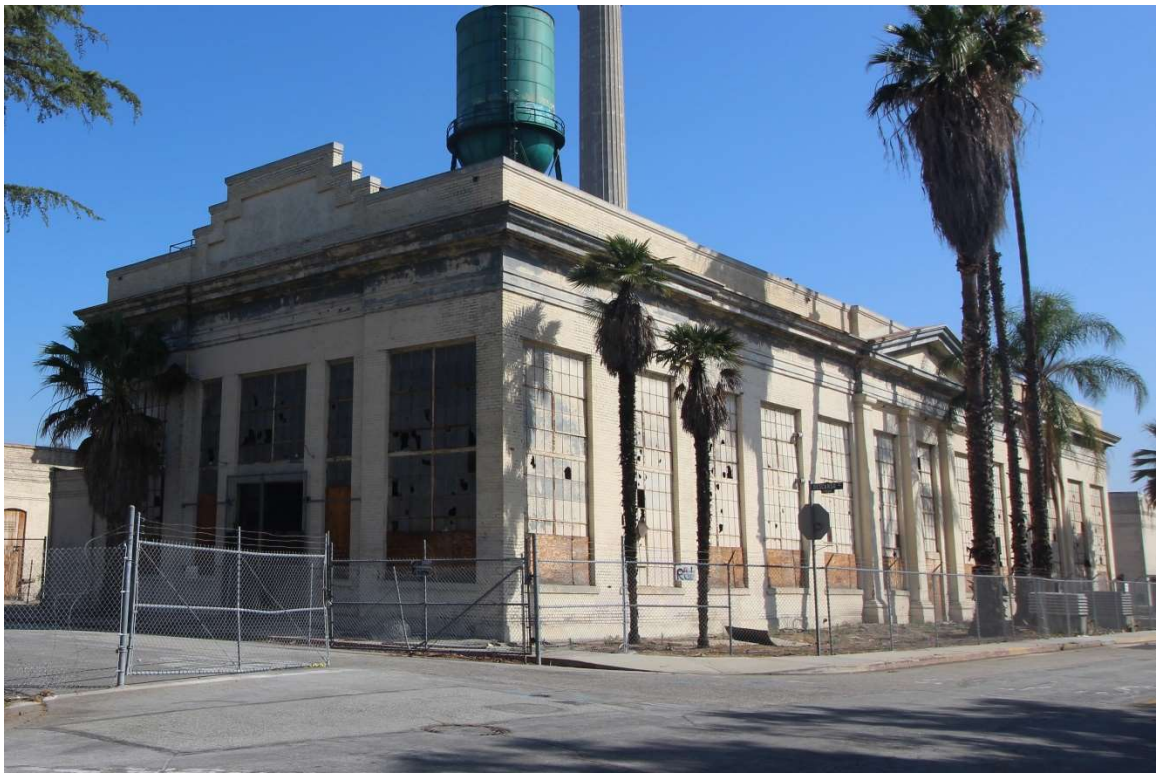
These buildings and structures represent the subject property's utility infrastructure, including power and water, and generally date from the Development of Rancho Los Amigos Era (1907-1932). Located throughout the District but concentrated on the west side of Erickson Avenue, associated buildings feature architectural styles including the Neoclassical Revival style. A total of 15 buildings within the District boundary fall within this type. Examples include LACO No. 1302 (Shop, Laundry, Ice Plant) built in two stages in 1909 and 1911 (**Figure 25**), LACO No. 1301 (Water Tower built in 1913, and LACO No. 1300 (Power Plant) designed in the Neoclassical Revival style and built in 1925 (**Figure 26**).



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 25
East and South Elevations of the Shop, Laundry, and Ice Plant (LACO No. 1302), View Northeast



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 26
East and South Elevations of the Power Plant (LACO No. 1300), View Northwest

Agricultural/Occupational Therapy Facilities

These buildings and structures represent the subject property's agricultural uses and occupational therapy programs and generally date from the Development of Rancho Los Amigos Era (1907-1932). This building type consists mostly of utilitarian buildings and structures concentrated in the southwest portion of the District. A total of six buildings and structures within the District boundary fall within this type. Examples include LACO No. 1207 (Work Preparation Center) built in the 1920s (**Figure 27**), LACO No. 1283 (Trunk Storage) originally built in 1915 as a stable (**Figure 28**), and LACO No. 1335 (Brooder House/Vivarium Annex) built in 1929. The basic designs of these structures is directly related to their functions, featuring simple (usually rectangular) floorplans constructed of inexpensive and readily available materials with no applied ornamentation.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 27
West Elevation of the Work Preparation Center (LACO No. 1207), View East



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 28
West and North Elevations of the Trunk Storage (LACO No. 1283), View East

Maintenance/Support

These buildings represent the subject property's support functions, and generally date from the Development of Rancho Los Amigos Era (1907-1932). Concentrated in the southeast and western portions of the District, these buildings feature architectural styles including Brick Vernacular and Utilitarian. A total of 27 buildings and structures within the District boundary fall within this type. Examples include LACO No. 1276 (Lock Shop) designed in the Brick Vernacular style and built in 1913, LACO No. 1275 (Workshop) designed in the Brick Vernacular style and built in 1917 (**Figure 29**), LACO No. 1357 (Landscape Office) designed in the utilitarian style and built in 1938 (**Figure 30**), LACO No. 954 (Lumber Shed) designed in the utilitarian style and built in 1942.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 29
East and South Elevations of the Workshop (LACO No. 1275), View Northwest



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 30
East Elevation of the Landscape office (LACO No. 1357), View West

Landscape Features

These features represent the subject property's overall landscape and circulation paths and generally date from the Los Angeles County Poor Farm Era (1887-1906) when the facility was first established. While there is only one building from the original period remaining, the site plan and circulation network laid out by Kysor, Morgan, and Walls remains extant today. A total of eleven features within the District boundary fall within this type. Examples include the overall Site Plan of the subject property, the Moreton Bay Fig Tree (**Figure 31**), shelters, canopies (**Figure 32**), and bus stops. The Site Plan consists of significant circulation patterns such as Consuelo Street, which was the original primary approach to the Poor Farm, and Erickson Avenue, which eventually became a primary approach after the construction of Imperial Highway to the north. The Site Plan also includes open landscaped spaces between the Harriman Residence (LACO No. 1101) and the Administration Building (LACO No. 1100), as well as the traffic circle at the intersection of Erickson Avenue and Consuelo Street, and the landscaped areas in front of the Auditorium (LACO No. 1262). It is recommended that the District's boundary be expanded at the southeast corner to encompass important aspects of the landscape and circulation paths that retain integrity (**Figure 33**). The new boundary follows the natural contours of the landscape and preserves important spatial relationships between the landscape, circulation paths, and nearby Administration Building (LACO No. 1100).



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 31
The Moreton Bay Fig Tree, View Southeast



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 32
Canopy near the Auditorium (LACO No. 1265), View Southwest



SOURCE: NAIP, 2016 (Aerial).

Rancho Los Amigos South Campus

Figure 33

Recommended Boundary for the Rancho Los Amigos Historic District (ESA, 2017)

ESA

Eligibility Assessment of the District

In order to qualify for eligibility, the District must possess significance under one or more of the applicable National Register, California Register, and Los Angeles County criteria and retain sufficient integrity to convey its historical significance. The District and its contributing buildings, structures, and features identified during the survey have been re-evaluated against the applicable criteria as historic resources within the themes of the historic context statement.

Significance Evaluation

The District is associated with the following historical and architectural themes: Advancements in Public Health and Medical Care (1870-1920); Housing the Poor in the California (1850-1930); Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952); Early Hospital Architecture (1880-1930); Craftsman Architecture (1905-1930); Neoclassical Revival Architecture (1885-1930); Renaissance Revival and Brick Vernacular (1895-1935); and Spanish Colonial Revival (1915-1940). The subject property contains multiple buildings, structures, and features, many of which lack individual architectural distinction but still express their historic function and share a common association with the history of Rancho Los Amigos and was previously determined eligible for the National Register and is listed on the California Register as a historic district.

Criterion A/1/1: Events

With regard to significant events in history, the following are the relevant criteria:

> **National Register Criterion A:** It is associated with events that have made a significant contribution to the broad patterns of our history.
>
> **California Register Criterion 1:** It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
>
> **Los Angeles County Landmark Criterion 1:** It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, State, County, or community in which it is located.

The District was first developed by the County of Los Angeles in 1888. Nearly 30 years earlier, the State of California's legislature enacted requirements that county governments should perform all acts necessary to the county welfare. This decision eventually led to the California "Poor Law of 1855," which made the care of the aged and needy the responsibility of local governments. Los Angeles County's obligation to provide for the poor and its growing indigent population resulted in significant overcrowding of the County Hospital. In 1888, the County opened a poor farm on the subject property, near the outskirts of the newly established town of Downey. Initially, the Poor Farm housed the elderly or those suffering minor illnesses and physical disabilities, relieving the overcrowded County Hospital. By the late nineteenth century, it had become common place for county governments throughout the country to operate almshouses, poorhouses, or poor farms. The concept of the almshouse, dating back to the early

history of the British Colonies, had changed very little up until the late nineteenth century. When the Los Angeles County Poor Farm opened, advancements in medicine and new laws governing the treatment of the sick and old aged were beginning to result in significant changes to almshouses throughout the country.

The District's period of significance is 1888-1952, beginning with the Los Angeles County Poor Farm's opening and incorporating the full conversion and build-out of the health-care facilities, ending with the final sale and subdivision of the adjacent agricultural lands originally associated with the Poor Farm, marking the completion of the subject property's transformation into a long-term healthcare facility. Development of the subject property from the Poor Farm's inception in 1888 to the subdivision of its former agricultural fields in the 1950s reflects the changing attitude toward healthcare in Los Angeles County as well as the evolving medical trends in the United States and California. Initially, labor on the Poor Farm was intended to expose inmates (patients) to the medicinal qualities of California's mild climate. Produce from the agricultural programs was used to feed the inmate population, giving the Poor Farm the added benefit of self-sustainability. Over time, the Poor Farm's agricultural fields were replaced with new patient wards, administration buildings, utilities, and maintenance buildings, while healing work in the fields was replaced by occupational therapy programs in workshops. These changes were largely motivated by the overcrowding of the county and state hospitals at the time and reflect the broader changes to almshouses, poorhouses, and poor farms throughout the country during the early twentieth century.

The history of the Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflects the broader trends in medical history across the United States. Furthermore, the property's development over time illustrates the changing approaches healthcare and treatment of the indigent population in Los Angeles County. Consistent with Sapphos' previous recommendation, this study recommends the period of significance associated with the District should be extended to 1952, when the adjacent agricultural lands were no longer needed and subdivided for residential development, marking the Poor Farm's completed transformation into a long-term healthcare facility. **The District appears to meet National Register Criterion A, California Register Criterion 1, and Los Angeles County Criterion 1 with a period of significance of 1888-1952.**

Criterion B/2/2: Significant Persons

With regard to associations with important persons, the following are the relevant criteria:

> **National Register Criterion B:** It is associated with the lives of persons significant in our past.
>
> **California Register Criterion 2:** It is associated with the lives of persons important in our past.

> **Los Angeles County Landmark Criterion 2:** It is associated with the lives of persons who are significant in the history of the nation, State, County, or community in which it is located.

The District does not appear to be significantly associated with personages important to national, state, or local history. The property originally served as a poor farm, experiencing a high rate of turnover among the inmates. Overtime, the patients began to stay on the property for longer periods of time as medical professionals started to favor more long-term treatment approaches. However, research of the property did not reveal any significant achievements by personages administered as patients. Furthermore, there is no indication in primary or secondary source material that any staff member of the Los Angeles County Poor Farm/Rancho Los Amigos made a significant contribution to our history that is not tied to the broad history of the institution.

While the institution thrived under the lengthy tenure of William R. Harriman, who served as the superintendent of Los Angeles County Poor Farm/Rancho Los Amigos between 1915 and 1952, he does not appear to reach the level of significance to warrant consideration as a historic personage at the national or state level. Under the leadership of Superintendent Harriman, the Poor Farm added multiple patient wards, service buildings, and other structures, evolving into a long term-care facility. However, the Poor Farm had already started developing into a healthcare facility prior to Harriman's arrival. The first purpose-built patient ward for the "harmless insane" was constructed in 1907, followed by multiple patient wards added to the property between 1907 and 1915, when Harriman assumed the office of Superintendent. Furthermore, Harriman's leadership did not influence the development of other similar institutions in California or the United States. **Therefore, the District does not appear to meet National Register Criterion B, California Register Criterion 2, or Los Angeles County Criterion 2.**

Criterion C/3/3: Design/Construction

With regard to architecture, design or construction, the following are the relevant criteria:

> **National Register Criterion C:** Embodies the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.
>
> **California Register Criterion 3:** Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
>
> **Los Angeles County Landmark Criterion 3:** It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, State, County, or community in which it is located; or possesses artistic values of significance to the nation, State, County, or community in which it is located.

The District was originally planned by Los Angeles based architects, Ezra Kysor, Octavius Morgan, and John Walls. When it initially opened 1888, the property served the community of Los Angeles County as a poor farm to house the local indigent population. The residents, collectively known as inmates, were made up of mostly elderly men and women, many of whom were suffering minor illnesses. The purpose of the Poor Farm was to provide food, clothes, and shelter to those who could no longer support themselves. The property's initial design was based on agriculture, consisting of two dormitories and an administration building surrounded by agricultural fields where the inmates could work while experiencing the medicinal qualities of the California climate. However, significant alterations to the property occurred over time, converting the former farm into a long-term healthcare facility. The four original buildings designed by Kysor, Morgan, and Walls, and another locally based architect named Jacob Friedlander are no longer extant on the property and the surrounding agricultural fields have been subdivided with residential development. While there is only one building from the original period remaining, the site plan laid out by Kysor, Morgan, and Walls, and in particular the landscape elements and roadway features they first established gave the property the park-like campus setting that continued to form the basis for its development in the following years. However, except for surviving remnants of the site plan and campus landscape, the District's built environment no longer reflects the original design of a poor farm implemented by Kysor, Morgan, and Walls, nor does it embody its original use as a poor farm.

Over time, the District evolved into an example of an early twentieth century healthcare campus, consisting of a combination of building types working together to provide adequate patient care (see Figure 14). However, the District does not embody the distinctive characteristics of the healthcare campus property type because it was not originally designed at one time for this purpose. The property evolved through multiple additions of new patient wards, administration facilities, and support buildings intended to relieve the burden on the surrounding county and state hospitals by taking in patients with non-life-threatening illnesses. These new facilities were added to the property over a 40-year period. Their locations and designs were not directed by a master plan designed to provide long-term healthcare, but rather the specific need at the time and the space available. Furthermore, as the use of the property changed, the institution continued to adhere to its agricultural beginnings until the early 1950s when the last remaining fields were subdivided for residential development. As such, the District no longer reflects its agricultural functions. Nonetheless, the District still reflects its origins in its site plan, and the cumulative fashion in which the various building types and functions were added to the property over a 40-year period and its slow transition into a long-term healthcare facility.

The District does not appear to embody the distinctive characteristics of a type, period, or method of construction, represent the work of a master, or possess high artistic values. It does not embody the distinctive architecture of a Poor Farm, hospital or long-term healthcare facility. Therefore, it does not appear significant under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criterion 3 due to a lack of architectural merit.

While California Register Criterion 3 and Los Angeles County Landmark Criterion 3 focus on architectural significance, National Register Criterion C has an additional provision related to historic districts. National Register Bulletin 15, *How to Apply the National Register Criteria for*

Evaluation, identifies historic districts under Criterion C as "a significant and distinguishable entity whose components may lack individual distinction."[219] To be eligible for the National Register, districts much possess significance as well as be a distinguishable entity. "Therefore, districts that are significant will usually meet the last portion of Criterion C plus Criterion A, Criterion B, other portions of Criterion C, or Criterion D."[220] In this case, the District appears to be historically significant as previously discussed under Criteria A, and also appears eligible under Criterion C as a distinguishable entity with multiple components, many of which lack individual distinction, but which together physically express the historic function and significance of the facility. As stated previously, Criterion 3 of the California Register and the County's preservation ordinance do not include this provision regarding historic districts. **Therefore, while not eligible under Criterion 3 of the California Register or the Los Angeles County Landmark Criterion 3, the District appears to meet National Register Criterion C, as a distinguishable entity whose components may lack individual distinction (i.e. district).**

Criterion D/4/4: Data Potential

> **National Register Criterion D:** It yields, or may be likely to yield, information important in prehistory or history.
>
> **California Register Criterion 4:** It has yielded, or may be likely to yield, information important in prehistory or history.
>
> **Los Angeles County Landmark Criterion 4:** It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, State, County, or community in which it is located.

While most often applied to archaeological districts and sites, Criterion D/4 can also apply to buildings, structures, and objects that contain important information related to history or pre-history. In order for a property to be eligible under Criterion D/4, it must be, or must have been, the principal source of the important information. The District does not appear to yield significant information that would expand our current knowledge or theories of design, methods of construction, operation, or other information that is not already documented in other primary or secondary source material. **Therefore, the District has not yielded and is not likely to yield information important to prehistory or history and does not satisfy National Register Criterion D, California Register Criterion 4, or Los Angeles Criterion 4.**

Los Angeles County Criterion 5: National and State Listed Resources

> **Los Angeles County Landmark Criterion 5:** It is listed, or has been formally determined eligible by the United States National Park Service for listing, in the National Register of Historic Places, or is listed, or has been formally determined eligible by the

[219] National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 17, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed October 3, 2017.

[220] National Register Bulletin 15, 5.

State Historical Resources Commission for listing, on the California Register of Historical Resources

Los Angeles County Criterion 5 recognizes historic resources that have been formally listed or found eligible for listing on the National Register and/or California Register. The District was determined eligible for the National Register and subsequently listed on the California Register, following the first survey completed in 1995 by Historic Resources Group (HRG). **Therefore, the District appears to meet Los Angeles County Criterion 5 because it has been determined eligible for the National Register and is listed in the California Register.**

Integrity Analysis

The National Register and California Register recognizes a property's integrity through seven aspects or qualities: location, design, setting, materials, workmanship, feeling, and association. Eligible properties should retain several, if not most, of these aspects. Both registers require that a resource retain sufficient integrity to convey its significance, and the property must retain the essential physical features that enable it to convey its historical identity. Integrity is based on significance and understanding why a property is important. National Register Bulletin 15 states that "only after significance is fully established can you proceed to the issue of integrity" (U.S. Department of the Interior 2002).

With regard to integrity under Criteria A and B, National Register Bulletin 15 further states, "a property that is significant for its historic association is eligible if it retains the essential physical features that made up its character or appearance during the period of its association with the important event, historical pattern, or person(s)" (VIII. How to Evaluate the Integrity of a Property, Defining the Essential Physical Features, Criteria A and B, U.S. Department of the Interior, 2002).

National Register Bulletin 15 also states that "for a district to retain integrity as a whole, the majority of the components that make up the district's historic character must possess integrity even if they are individually undistinguished. In addition, the relationships among the district's components must be substantially unchanged since the period of significance. When evaluating the impact of intrusions upon the district's integrity, take into consideration the relative number, size, scale, design, and location of the components that do not contribute to the significance. A district is not eligible if it contains so many alterations or new intrusions that it no longer conveys the sense of a historic environment. A component of a district cannot contribute to the significance if it has been substantially altered since the period of the district's significance, or it does not share the historic associations of the district" (VIII. How to Evaluate the Integrity of a Property, Defining the Essential Physical Features, Historic Districts, U.S. Department of the Interior, 2002).

The District was identified as significant under National Register Criterion A, California Register Criterion 1, and Los Angeles County Criterion 1 for its association with evolving medical care in Los Angeles County during the late nineteenth and early twentieth centuries. Based upon this significance finding, a period of significance has been identified as 1888, when the property began operation as the Los Angeles County Poor Farm, and 1952 when the former Poor Farm had

fully converted into a long-term healthcare facility and most of the agricultural fields had been subdivided for residential development.

Additionally, the property was determined significant under Criteria C as a significant and distinguishable entity whose components lack individual distinction (historic district) and under Los Angeles County Criterion 5 as a resource that was determined eligible for the National Register and is listed in the California Register. The District consists of seven different building types that played a role in the District's history as an agricultural property and medical institution. To convey its significance under National Register Criteria A and C, California Register Criteria 1, and Los Angele County Criteria 1 and 5, the District would need to retain its circulation paths, open landscape, and contributors that embody each building type. Furthermore, it would need to retain the majority of the components and essential physical features that made up its character or appearance during the period of significance, and the relationships among the district components must be substantially unchanged since the period of significance, without many new alterations or new intrusions that would detract from the sense of a historic environment.

Location

The National Register defines integrity of location as "the place where the historic property was constructed or the place where the historic event occurred."[221] The District has remained in its original location since it opened as the Los Angeles County Poor Farm in 1888. Therefore, the District retains its integrity of location for the period of significance (1888-1952). Furthermore, the various components that make up the District retain their original locations, and the relationships among district components are unchanged since the period of significance with little alterations or new intrusions.

Design

Integrity of design is defined by the National Register as "the combination of elements that create the form, plan, space, structure, and style of a property."[222] When the District was originally planned by the Los Angeles based architectural firm of Kysor, Morgan, and Walls in 1887, the intent was to build a poor farm. Initially conceived as the Los Angeles County Poor Farm, the District was intended to provide food, shelter, and clothing to the County's indigent population. The four original buildings were centrally located among agricultural fields. Overtime, the District expanded as the needs of the institution evolved. The agricultural fields receded as new patient wards were constructed alongside support and administration facilities. While the current architecture of the District does not reflect the original design intent of Kysor, Morgan, and Walls, the original site plan and circulation patterns laid out by the architects in the late nineteenth century remain. The changes to the District reflected changing approaches to healthcare that were occurring locally as well as nationwide. Although the long-term health facilities were not constructed at one time based on a master plan developed by the sites original designers, their addition over a 40-year period reflects the changing needs of the institution. The District retains intact examples of each of the building types that were present throughout the period of significance (1888-1952). Furthermore, the District retains the majority of its

[221] National Register Bulletin 15, 44.
[222] National Register Bulletin 15, 44.

components, and these components (i.e. contributors) retain integrity of Design in terms of structural system (i.e. wood-frame or masonry), massing, fenestration pattern, textures and colors of materials, type, amount and style of ornamental detailing. With its historic layout of roads and circulation paths, spatial relationships between major features and among components with little alterations or intrusions, original topography and open landscape areas, and mature landscape features, the District retains its integrity of design reflecting the evolution of the property throughout its transition from a poor farm to a long-term healthcare facility.

Workmanship

The National Register defines integrity of workmanship as "the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory."[223] Workmanship can apply to the property as a whole or to its individual components, and can be expressed in vernacular methods of construction and plain finishes or in highly sophisticated configurations and ornamental detailing. As stated previously, the District developed over a period of time, transitioning from a poor farm into a long-term healthcare facility. Throughout the period of significance (1888-1952), new buildings were constructed to meet the evolving needs of the institution. These buildings reflect a variety of architectural styles and construction techniques based upon their purpose and date of construction. Currently the District retains examples of a variety of architectural styles, including Craftsman, Neoclassical Revival, Spanish Colonial Revival, Renaissance Revival and brick vernacular, as well as utilitarian structures. Additionally, the District retains 61 contributing buildings and features, constructed over a 60-year period. Although these buildings are vacant and in varying states of decay due to a lack of use or maintenance, their features remain largely intact and retain enough evidence of the workmanship employed at the time of their construction with limited alterations or loss. The District's contributing buildings reflect a wide variety of uses, construction techniques, and workmanship including period examples of masonry, carpentry, and the use of plaster and concrete. Therefore, the District retains integrity of workmanship.

Materials

Integrity of Materials is defined by the National Register as a resource's "physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property."[224] According to National Register Bulletin 15, "a property must retain the key exterior materials dating from the period of its historic significance." The District has suffered from deterioration of its original materials overtime due to the elements, arson, and vandalism. Despite the deterioration that has occurred, the contributing buildings found throughout the District retain enough of their original exterior materials including, wood, masonry, cast iron, concrete, and plaster to convey their historic configurations. The contributing buildings represent each of the building types that were located on the property during the period of significance (1888-1952), reflecting the changes that occurred to the institution as it adapted to the healthcare needs of the County. In its current condition, the District possesses the necessary materials to reflect its significance. Therefore, the District retains its integrity of materials.

[223] National Register Bulletin 15, 45.
[224] National Register Bulletin 15, 45.

Setting

Integrity of Setting is defined by the National Register as the physical environment of a historic resource.[225] Whereas location refers to a specific place where a property was built or an event occurred, setting refers to the character of the place in which the property played its historic role. The historic setting surrounding the District has been altered significantly over time due to the subdivision of the former agricultural fields. Properties north of the District have been redeveloped with warehouses and office buildings, while properties to the east were subdivided for residential development in the 1950s. Although these changes to the setting have removed the former Poor Farm from its agricultural setting, the changes reflect the property's transformation from a poor farm into a long-term healthcare facility and the corresponding development patterns of the surrounding County. While the fields surrounding the former Poor Farm have been lost due to infill development, the immediate setting of the District and its contributors remains intact with little alterations or intrusions. The original circulation paths remain, reflecting the property's original layout during its inception in 1888. The District retains 61 contributing buildings and features, constituting a majority of the buildings present during the District's period of significance (1888-1952). Although the landscaping has evolved over time, the open areas throughout the District's interior remain without infill development, reflecting the conditions of the property during the period of significance. While the broader setting outside of the District has been altered by infill development, the immediate setting within the District that contributes to the District's significance remains intact. Therefore, the District retains its integrity of setting.

Feeling

According to the National Register guidelines, integrity of feeling is a historic resource's "expression of the aesthetic or historic sense of a particular period of time."[226] The District retains examples of the seven different building types that were present during the period of significance (1888-1952). Each of the building types contributed to the overall function of the institution. In addition to the contributing buildings, the District retains its original circulation paths and open landscape with very little infill development. With 61 contributing buildings and features reflecting a variety of architectural styles and uses, the District retains the relationships between the majority of its components with little alterations or intrusions and continues to convey the feeling of an early twentieth century healthcare facility and retains its integrity of feeling.

Association

Integrity of association is "the direct link between an important historic event or person and a historic property."[227] The District continued to operate as a healthcare facility until the 1980s, when the County began to abandon the buildings. Currently, only the former Administration Building (LACO No. 1100) is in regular use. However, none of the contributing buildings, including the Administration Building, have been significantly altered for new uses. Therefore,

[225] National Register Bulletin 15, 45.
[226] National Register Bulletin 15, 45.
[227] National Register Bulletin 15, 45.

because the contributing buildings continue to reflect their original healthcare related uses, the District retains its integrity of association.

Summary

The District meets the National Register and California Register integrity requirements, retaining its integrity of location, design, workmanship, materials, setting, feeling, and association. The District remains in its original location since it opened as a poor farm in 1888. It has been identified as significant for its association with the evolving healthcare needs of Los Angeles County during the late nineteenth and early twentieth centuries. Although the District no longer reflects the original design intent of the architects as constructed in 1888, the changes that occurred to the property overtime have contributed to its significance. New buildings were added to the site overtime based on need and space available. Many of the buildings constructed during the period of significance (1888-1952) remain intact with little modification. The 61 contributing buildings, structures, and features represent seven different building types, reflecting their different uses and the overall function of the institution as it evolved into a long-term healthcare facility. Therefore, the District retains its integrity of design as it evolved over time. While some of the materials have deteriorated due to the abandonment of the site, the materials are largely intact and continue reflect the workmanship of the builders and designers at the time of their construction. The surrounding setting has changed significantly since the District was first developed as a poor farm. The former agricultural fields that once surrounded the property have been subdivided for residential and commercial development. However, these changes reflect the property's significance as it evolved from a poor farm into a healthcare facility. The immediate setting within the district boundaries remains intact and continues to reflect the District's historic appearance. Consequently, the District retains its integrity of feeling as an early twentieth century healthcare facility, retaining key building types like the several patient wards and the administration building. The District retains integrity of association because the majority of the contributing buildings remain in the original condition. None of the buildings have been repurposed in a manner that resulted in substantial change. The property has been mostly abandoned for the last thirty years, with the exception of the Administration Building (LACO No. 1100), which has continued to operate as an office building. Therefore, the District retains integrity of location, design, workmanship, materials, setting, feeling, and association (**Table 5**) and continues to convey its significance under National Register Criteria A and C, California Register Criteria 1, and Los Angeles County Criteria 1 and 5.

TABLE 5
SUMMARY OF INTEGRITY FOR THE RANCHO LOS AMIGOS HISTORIC DISTRICT

	Retains Integrity	Lacks Integrity
Location	X	
Design	X	
Setting	X	
Workmanship	X	
Materials	X	
Feeling	X	
Association	X	

District Contributors

The contributing buildings, structures, and features were organized into seven different building types associated with the historical development of the District. Each of the building types played a role in the District's history as a poor farm and long-term healthcare facility. The District conveys its significance under National Register Criteria A and C and California Register Criterion 1, by retaining contributors that embody each building type, including the three subtypes of patient wards. The combination of the various building types allow the District to demonstrate the various functions and services historically associated with the Los Angeles County Poor Farm and later Rancho Los Amigos.

Each potential contributor was categorized based on its historic use associated with the building types found in the District. Buildings dating from the period of significance were evaluated for integrity and identified as contributors or non-contributors. *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation* states "For a district to retain integrity as a whole, the majority of the components that make up the district's historic character must possess integrity even if they are individually undistinguished."[228] In accordance with the guidelines of the National Register, integrity is evaluated in regard to the retention of location, design, setting, materials, workmanship, feeling, and association. The property must retain, however, the essential physical features that enable it to convey its historic identity. According to *National Register Bulletin 15*, "A property that is significant for its historic association is eligible if it retains the essential physical features that made up its character or appearance during the period of its association with the important event, historical pattern, or person(s)."[229] In accordance with these guidelines, out of the seven aspects of integrity, District contributors would need to retain integrity of location, setting, feeling, and association in order to convey the District's significance under National Register Criterion A and California Register Criterion 1 and as a historic district defined under National Register Criterion C. The California Register requires that a resource retain enough of its historical character or appearance to be recognizable as a historical resource and to convey the reasons for its significance. The results of the survey are indicated in **Table 6.** A more extensive table with photographs of the contributing and non-contributing buildings is included in **Appendix H**. The map presented in **Figure 34** illustrates the important contributing elements of the site plan and landscape, while The map presented in **Figure 35** shows the locations of District contributors, non-contributors, and individually eligible buildings.

[228] National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 46, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed October 3, 2017.

[229] National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 46, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed October 3, 2017.

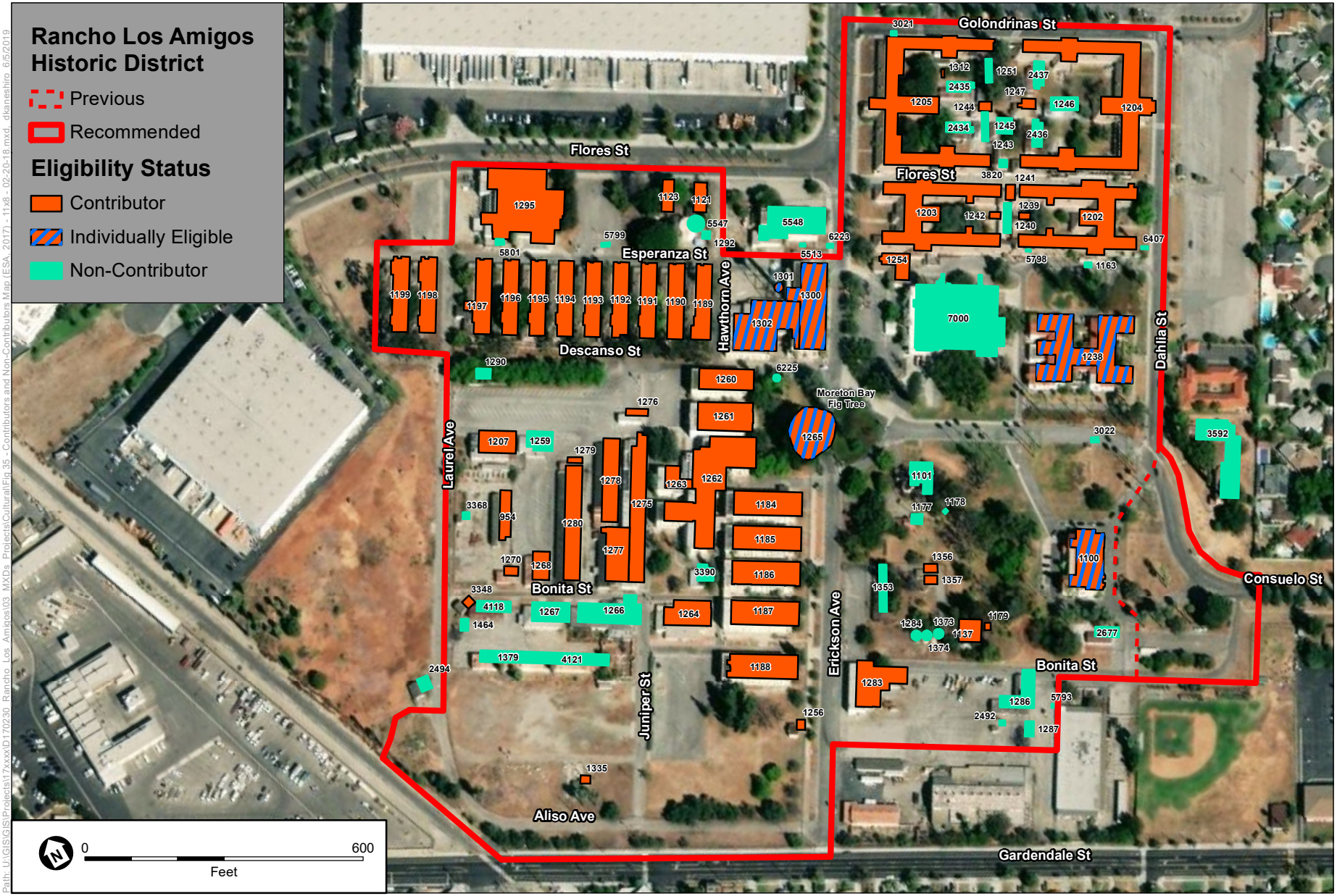


SOURCE: NAIP, 2016 (Aerial).

Rancho Los Amigos South Campus

Figure 34

Rancho Los Amigos Site Plan (ESA, 2017)



SOURCE: NAIP, 2016 (Aerial).

Rancho Los Amigos South Campus

Figure 35

Contributors and Non-Contributors Map (ESA, 2017)

ESA

TABLE 6
ELIGIBILITY OF CONTRIBUTORS (1888-1952)

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Administration/ Staff Buildings	LACO No. 1100	Administration/Safety Police Building	1926	Location	Yes	Contributor**
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1101	Superintendent's Residence/Harriman House	1915	Location	Yes	Non-Contributor (Lack of Integrity due to Fire Damage)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 1121	Staff Cottage	1921	Location	Yes	Contributor
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1123	Staff Cottage	1924	Location	Yes	Contributor
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1137	Dairyman's House	1907	Location	Yes	Contributor
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1177	Superintendent's Garage	1917	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Administration/ Staff Buildings (cont.)	LACO No. 1178	Superintendent's Shed	c.1917-1922	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 1179	Dairyman's Garage	1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 2677	Post Office	1949	Location	No	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
Patient Wards	LACO No. 1184	General Ward 30	1913	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1185	General Ward 40	1913	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1186	General Ward 50	1916	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Patient Wards (cont.)	LACO No. 1203	Women's Psychiatric Ward	1919	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1205	Men's Psychiatric Ward	1907	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1242	Toilet Building	1920	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1244	Toilet Room	1916	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1189	Patient Ward 201	1923	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1190	Patient Ward 202	1923	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Patient Wards (cont.)	LACO No. 1191	Patient Ward 203	1923	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1192	Patient Ward 204	1923	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1202	Women's Psychiatric Ward	1924	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1204	Men's Psychiatric Ward	1924	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1260	Bathhouse and Ward	1922	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1187	General Ward 60	1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Patient Wards (cont.)	LACO No. 1188	General Ward 70	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1193	Patient Ward 205	1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1194	Patient Ward 206	1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1195	Patient Ward 207	1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1196	Patient Ward 208	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1247	Toilet Building	1925	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Patient Wards (cont.)	LACO No. 1256	Toilet Building	1925	Location	Yes	Contributor
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1197	Patient Ward 209	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1198	Patient Ward 210	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1199	Patient Ward 211	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1238	Casa Consuelo	1930	Location	Yes	Contributor**
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1239	Toilet Building	1930	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Patient Wards (cont.)	LACO No. 1241	Linen Room	1932	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1245	Linen Room/Snack Bar No. 3	1932	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
Dining/Social Facilities	LACO No. 1254	Chapel/Computer Center	1908	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	No	
	LACO No. 1261	Auditorium	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1262	Dining Room, Kitchen, Staff Room	1913-1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1263	Commissary and Receiving Room	1912	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Dining/Social Facilities (cont.)	LACO No. 1264	Bonita Hall	1932	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1295	Kitchen and Dining Building	1927	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1312	Aviary	1888 (Relocated c. 1924)*	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1266	Amigos Hall	1928	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 2434	Shed/Men's Gymnasium	1949*	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 2435	Patient Recreation Shed	1949	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Dining/Social Facilities (cont.)	LACO No. 2436	Classroom Hut/Shed	1949	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 3592	Chapel	1953	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
Utilities	LACO No. 1163	Generator House	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 1292	Pump House	1932	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 1300	Power Plant	1925	Location	Yes	Contributor**
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1301	Water Tower	1913	Location	Yes	Contributor**
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Utilities (cont.)	LACO No. 1302	Shop, Laundry, Ice Plant	1909-1911	Location	Yes	Contributor**
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 7000	Butler Building	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 5513	Electrical Station 18	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 5547	200,000 Gallon Tank	1966	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 5548	Steam Plant	1966	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 5793	Electrical Distribution Panel	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Utilities (cont.)	LACO No. 5798	Electrical Station 16	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 5799	Electrical Station 4C	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 5801	Generator House	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 6223	Electrical Station	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 6225	Electrical Station	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 6407	Electrical Station	Unknown (Post 1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Agricultural/Occupational Therapy Facilities	LACO No. 1207	Work Preparation Center	1925*	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1283	Trunk Storage	1923	Location	Yes	Contributor
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1284	Grain Tank	Unknown	Location	No	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1335	Brooder House/Vivarium Annex	1929	Location	Yes	Contributor
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1373	Grain Tank	Unknown	Location	No	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1374	Grain Tank	Unknown	Location	No	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Maintenance/Support	LACO No. 1275	Workshop	1917	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1276	Lock Shop	1913	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1278	Garage and Storage	1924	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 954	Lumber Shed	1942	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1268	Storage	1932	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1270	Garage	1932	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Maintenance/Support (cont.)	LACO No. 1277	Garage	1925*	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1279	Garage	1925*	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1280	Garage/Storage	1928	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1356	Tool House	1926	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1357	Landscape Office	1938	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 3348	Garbage Can Room	1951	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Maintenance/Support (cont.)	LACO No. 1259	Wheel Chair Repair	1932	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 1267	Transportation Office	1930	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 1287	Oil and Storage	1909	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 1286	Garage/Storage	1920	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 1464	Shed	1945*	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 2437	Metal Shed	1949	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Maintenance/Support (cont.)	LACO No. 2492	Toilet Room	1948	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 1353	Greenhouse	Unknown (Post-1952)*	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 1379	Garage	Unknown (Post-1954)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 2494	Shed	Unknown (Pre-1952)	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 3368	Shed	Unknown (Pre-1952)	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	No	
				Feeling	No	
				Association	No	
	LACO No. 3390	Prosthetic Shop	1953	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Maintenance/Support (cont.)	LACO No. 3820	Loading Dock	1954	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 4118	Garage	Post-1965	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 4121	Garage	Unknown (Post-1954)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
Landscape Features	N/A	Site Plan	1888	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	N/A	Moreton Bay Fig Tree	1900	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1240	Shelter	Unknown (Post-1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Landscape Features (cont.)	LACO No. 1243	Open Shelter	Unknown (Post-1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 1246	Canopy	Unknown (Post-1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 1251	Open Shelter	Unknown (Post-1952)	Location	N/A	Non-Contributor (Outside Period of Significance)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	
	LACO No. 1265	Shelter	c. 1933*	Location	Yes	Contributor
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 1290	Shelter	Unknown (1926-1930)	Location	Yes	Non-Contributor (Lack of Integrity)
				Setting	Yes	
				Feeling	No	
				Association	No	
	LACO No. 3020	Bus Stop	Unknown	Location	N/A	Non-Contributor (Not Extant)
				Setting	N/A	
				Feeling	N/A	
				Association	N/A	

Building Type	LACO No.	Building Name	Date of Construction	Integrity Analysis		Eligibility Status (ESA, 2017)
Landscape Features (cont.)	LACO No. 3021	Bus Stop	Unknown	Location	Yes	Non-Contributor (Does not contribute to District's significance)
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	
	LACO No. 3022	Bus Stop	Unknown	Location	Yes	Non-Contributor (Does not contribute to District's significance)
				Setting	Yes	
				Feeling	Yes	
				Association	Yes	

Eligibility Assessment of Individual Buildings and Features

Post/Hazeltine Associates and Sapphos previously identified eleven individually eligible buildings in the District (**Table 7**). The results of this study indicate that five of these buildings are individually eligible under National Register Criteria C, California Register Criteria 3 and Los Angeles County Criteria 3 due to their architectural merit:

- Administration/Safety Police Building (LACO No. 1100)
- Casa Consuelo (LACO No. 1238)
- Power Plant (LACO No. 1300),
- Water Tower (LACO No. 1301)
- Shop, Laundry and Ice Plant (LACO No. 1302)

These five buildings and structures appear to be distinctive examples of architecture and retain a high level of integrity of design, materials, workmanship, feeling, and association. Further, the Moreton Bay Fig Tree appears to meet the significance requirements of Los Angeles County Criteria 6 and 7 as an individual feature. Los Angeles County Criterion 6 recognizes trees that are the largest or oldest of their species in the County, while Criterion 7 recognizes trees, landscapes, or other natural features that are a defining or significant feature of a neighborhood. The Moreton Bay Fig Tree appears to meet these criteria and retains integrity of location, setting, feeling, and association. The tree was not previously identified as an individual resource because the Los Angeles County ordinance pertaining to historic resources did not exist at the time of the prior evaluations.

The other six previously identified individually eligible buildings either lack significance and/or integrity and are recommended ineligible as individual historical resources:

- Harriman/Superintendent's House (LACO No. 1101)
- Superintendent's Garage (LACO No. 1177)
- Superintendent's Shed (LACO No. 1178)
- Auditorium (LACO No. 1261)
- Dining Room, Kitchen, and Staff Room (LACO No. 1262)
- Commissary and Receiving Room (LACO No. 1263)

The evaluation of their significance and integrity, as well as an updated architectural description, for these six buildings are included in the analysis below.

Lastly, this study considered all buildings and structures on the subject property for potential individual eligibility under National Register Criterion C, California Register Criterion 3, and Los Angeles County Criterion 3. As a result of archival research and site investigations, beyond the eleven previously identified buildings, none of the other buildings individually were found to meet the national and state thresholds for architectural significance.

TABLE 7
COMPARISON OF INDIVIDUALLY ELIGIBLE BUILDINGS (CRITERIA C/3)

Building Name and LACO No.	Post Hazeltine Associates 2004	Sapphos Environmental, Inc. 2007-2011	ESA 2017
Administration/Safety Police Building (LACO No. 1100)	X	X	X
Casa Consuelo (LACO No. 1238)	X	X	X
Harriman/Superintendent's House (LACO No. 1101)	X	X	
Superintendent's Garage (LACO No. 1177)	Associated building to LACO NO. 1101	Associated building to LACO NO. 1101	
Superintendent's Shed (LACO No. 1178)	Associated building to LACO NO. 1101		
Auditorium (LACO No. 1261)	X		
Dining Room, Kitchen, and Staff Room (LACO No. 1262)	X	X	
Commissary and Receiving Room (LACO No. 1263)	X	X	
Power House (LACO No. 1300)	X	X	X
Water Tower (LACO No. 1301)	Associated building to LACO NO. 1300	Associated building to LACO NO. 1300	X
Shop, Laundry, and Ice Plant (LACO No. 1302)	Associated building to LACO NO. 1300	Associated building to LACO NO. 1300	X

Superintendent's Residence (Harriman House) (LACO No. 1101)

Architectural Description

An arson fire destroyed much of the Superintendent's Residence (Harriman House) (LACO No. 1101) on June 26, 2017. The current appearance of the primary (north) elevation is shown in the photograph presented in **Figure 36**. What remains is mostly limited to the first floor: the brick porch columns and low walls comprising the wrap-around porch; the red concrete comprising the porch floor and stairs; the porte-cochere; the two doors and three of the four windows on the north façade, the pair of windows on the west façade, the window on the west façade, and the southernmost window on the east façade; most of the wood clapboard siding on the north, west, and south façades, and some of the clapboard siding on the east façade; most of the "pop-out" attached to the south façade; the chimney; and the red concrete comprising the porch pathways and stairs. Portions of the interior survived the fire including the entrance foyer and living room with fireplace and mantel, dining room, parlor and kitchen, including the interior woodwork, built-ins and wood trim (door and window surrounds, and ceiling beams).

To the rear of the Superintendent's Resident (Harriman House) (LACO No. 1101) are two associated ancillary buildings (LACO Nos. 1177 & 1178), which both did not suffer fire damage. The Superintendent's Garage (LACO No. 1177), shown in **Figure 37**, is a Craftsman style garage

built in 1917 to support the operations of the Superintendent's Residence (LACO No. 1101). There are no physical changes to the Superintendent's Garage (LACO No. 1177) from the 2007-2011 Sapphos survey. Located in the southeast corner of the Superintendent's Residence's domestic backyard, is the Superintendent's Shed (LACO No. 1178), shown in **Figure 38**, a utilitarian Wood Vernacular shed built c. 1917 to support the operations of the Superintendent's Residence (LACO No. 1101). There are no physical changes Superintendent's Shed (LACO No. 1178) from the 2007-2011 Sapphos survey. The lawn is retained, as is the setback, paving around the residence, the side driveway, and pathway to the residence. The trees and smaller vegetation surrounding LACO No. 1101 have largely been destroyed except for those adjacent to the residence's west and south elevations.



Rancho Los Amigos South Campus

SOURCE: ESA, June 28, 2017

Figure 36
Primary (North) Elevation of the Superintendent's Resident (Harriman House) (LACO No. 1101), View Southwest



Rancho Los Amigos South Campus

SOURCE: ESA, June 28, 2017

Figure 37
Primary (North) Elevation of the Superintendent's Garage (LACO No. 1177), View South



Rancho Los Amigos South Campus

SOURCE: ESA, June 28, 2017

Figure 38
Primary (Northwest) Elevation of the Superintendent's Shed (LACO No. 1178), View Southeast

Significance Evaluation

The Superintendent's Residence (LACO No. 1101), along with the Superintendent's Garage (LACO No. 1177) and Superintendent's Shed (LACO No. 1178), have been previously evaluated three times: in 1995 by HRG, in 2004 by Post/Hazeltine Associates, and between 2007-2011 by Sapphos. In 1995, HRG identified the Superintendent's Residence (LACO No. 1101) and Superintendent's Garage (LACO No. 1177) as contributors to the District and did not evaluate them for individual significance. HRG did not address the Superintendent's Shed (LACO No. 1178) in its 1995 evaluation. Next, in 2004 Post/Hazeltine Associates resurveyed the District and recommended the District ineligible for listing in the National Register and California Register. However, Post/Hazeltine Associates recommended LACO No. 1101 as individually eligible for the National Register under Criterion C and California Register Criterion 3 (NRHP status code of 3S) as "an excellent example of the Craftsman style." At this time, Post/Hazeltine Associates recommended both the Superintendent's Garage (LACO No. 1177) and Superintendent's Shed (LACO No. 1178) as contributing to the individual eligibility of the Superintendent's Residence (LACO No. 1101) as associated buildings. Lastly, between 2007-2011, Sapphos recommended LACO No. 1101 as individually eligible under National Register Criterion C and California Register Criterion 3 (assigned NRHP status coded of 2D2 and 3S). Also, Sapphos recommended the Superintendent's Garage (LACO No. 1177) as an associated building contributing to the significance of the Superintendent's Residence (LACO No. 1101) individual eligibility, but on its own architectural merits it was recommended individually ineligible. Sapphos recommended the Superintendent's Shed (LACO No. 1178) as individually ineligible and not contributing to the significance of the Superintendent's Residence's (LACO No. 1101) individual eligibility.

Because the Superintendent's Residence (LACO No. 1101) was previously recommended individually eligible under National Register Criterion C and California Register Criterion 3 in two previous evaluations completed by Post/Hazeltine Associates and Sapphos evaluations, LACO No. 1101 was revaluated along with its two associated buildings LACO Nos. 1177 and 1178. LACO No. 1101 was evaluated in its present fire damaged condition under the following historical and architectural themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952); and Craftsman Residential Architecture (1905-1930). Prior to the June 2017 fire, LACO No. 1101 was an excellent and intact example of Craftsman architecture constructed in 1914 to house the Superintendent of the Poor Farm and his family and is presently the only extant building of its style and property type (single-family residence intended for use by staff) on both campuses of the Rancho Los Amigos property. However, the fire damage substantially damaged and destroyed character-defining features embodying the Craftsman style and as result the Superintendent's Residence (LACO No. 1101) is no longer a distinctive or recognizable example of a Craftsman style residence. **Therefore, the Superintendent's Residence (LACO No. 1101) is not individually significant under National Register Criterion C, California Register Criteria 3 or Los Angeles County Criteria 3 for architecture.**

In regards to Superintendent's Garage (LACO No. 1177) and Superintendent's Shed (LACO No. 1178), due to the Superintendent's Residence's (LACO No. 1101) aforementioned destruction and loss of architectural significance, both buildings have also lost their significant architectural

associations as associated buildings supporting the significance of the Superintendent's Residence. Without the Superintendent's Residence, the function of the Superintendent's Garage (LACO No. 1177) as a place to store the Superintendent's cars is no longer discernable and on its own merits it is not architecturally distinctive. **Therefore, the both LACO Nos. 1177 and 1178 are not individually significant under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architecture.**

Integrity Analysis

In its pre-fire condition, the Superintendent's Residence (LACO No. 1101) was substantially intact (i.e. it retained integrity of location, design, setting, workmanship, materials, feeling, and association); as such, it conveyed its original use as a residence for the Superintendent and his family. However, the June 2017 fire destroyed more than 50% of the building including the entire second-story and much of the first-story, and as a result, it presently only retains integrity of location and setting. As a result of the fire, only a portion of the first floor (entrance foyer, living room, dining room, kitchen), front porch (wrap around porch), and porte-cochere remain. The second floor was entirely consumed by fire as was approximately a third of the first floor (middle-to-rear section).

In summary, resulting from the extensive fire damage on June 26, 2017, the Superintendent's Residence (LACO No. 1101) does not retain integrity of design, workmanship, materials, feeling, and association. Due to a lack of integrity, LACO No. 1101 no longer conveys its historical associations with past Superintendents or with Craftsman style architecture. Therefore, in its present condition, it lacks architectural significance and sufficient integrity to be considered individually eligible as a Craftsman style residence, and it is recommended that Superintendent's Residence (LACO No. 1101) now be assigned a NRHP Status Code of 6Z, noting it as ineligible for listing in the National Register and California Register through survey evaluation. Furthermore, consistent with Sapphos' previous recommendations, both associated buildings, the Superintendent's Garage (LACO No. 1177) and Superintendent's Shed (LACO No. 1178), are recommended ineligible individually and should also be assigned NRHP Status Codes of 6Z.

Auditorium (LACO No. 1261)

Architectural Description

The Auditorium (LACO No. 1261) is in the central area of the District, west of the Moreton Bay Fig Tree and Shelter (LACO No. 1265), across a grassy setback from Erickson Avenue. It is a two-story, unreinforced masonry building with a rectangular plan and smooth stucco siding (**Figure 39**). It was originally designed in the Spanish Colonial Revival style, but was modified to resemble a relatively bare Art Deco building. Minor changes were observed in the 2017 survey as compared with the 2007-2011 Sapphos survey. These physical changes since the last survey include the further boarding of most windows and doors; deterioration of stucco to reveal brick underneath on all elevations; and further elaboration of the landscape description to include wrought iron railing with a drinking fountain and double sloping concrete walkways and a concrete pad in front of the east (primary) elevation). During the 2017 survey, the overall condition of the Auditorium (LACO No. 1261) as degraded.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 39
Primary (East) Elevation of the Auditorium (LACO No. 1261), View West

Significance Evaluation

Because the Auditorium (LACO No. 1261) was previously recommended individually eligible under National Register Criterion C and California Register Criteria 3 by Post/Hazeltine Associates in 2004, the Auditorium's (LACO No. 1261) individual eligibility was reevaluated under National Register Criterion C and California Register Criterion 3. The most recent survey conducted by Sapphos in 2007-2011 recommended the Auditorium (LACO No. 1261) individually ineligible attributable to alterations to the original Spanish Colonial Revival style design. The Auditorium (LACO No. 1261) was reevaluated under the following historical and architectural themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952) and Spanish Colonial Revival Style Architecture (1915-1940). The 850-seat Auditorium (LACO No. 1261) was built in 1927, in order to provide a larger entertainment venue for the growing campus. The Auditorium (LACO No. 1261) was designed by County architect Karl Wilhelm Muck in the Spanish Colonial Revival style. Based upon intensive research and site visit observations, the Auditorium (LACO No. 1261) has been substantially altered and the once restrained Spanish Colonial Revival style is no longer discernable. The design now reflects an Art Deco inspired style. The original character-defining features on the Auditorium (LACO No. 1261) that embodied the Spanish Colonial Revival style have been removed; stucco has been applied over the exposed brick on all elevations and the cast stone lintels above the first-story fenestration, the front Spanish-tile pent roof and decorative wrought iron grilles over the second-story windows have all been removed, the three pairs of entry doors were replaced, steel windows on the side elevations were removed and openings were infilled. As such, the Auditorium (LACO

No. 1261) is not a distinctive or recognizable example of a Spanish Colonial Revival style social facility and in its current altered conditions it does not represent a notable work of County architect Karl Wilhelm Muck. **Therefore, the Auditorium (LACO No. 1261) is not individually significant under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architecture.**

Integrity Analysis

Due to the removal of Spanish Colonial Revival style character-defining features, the Auditorium (LACO No. 1261) does not retain integrity of design, workmanship or materials. Exterior alterations noted during the 2017 survey in comparison with historic photographs and the 1927 plans have substantially compromised its integrity of design, workmanship, and materials, and include: the application of smooth stucco over the exposed brick on all elevations and the cast stone lintels above the first-story fenestration; the removal of the front Spanish-tile pent roof and decorative wrought iron grilles over the second-story windows; the replacement of the three pairs of entry doors; removal of the cornices on all elevations; new exterior lighting; the demolition of the covered walkway between the north elevation of LACO No. 1261 and the south elevation of the adjacent LACO No. 1260 (Bathhouse and Ward); and the boarding of most windows and doors. Additionally, the associated landscape adjacent to the east elevation has been changed from its former lush state to a simple green lawn and adjacent original wrought iron railings have been replaced. Plans from January 1971 show the installation of air conditioning, new interior light fixtures, a new bathroom at the northeast corner of the first floor, and the replacement of all side elevations windows and the infill of their openings.

Despite these alterations to the original design, the Auditorium retains its integrity of association under the historical theme of Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952) and its feeling as a social hub on the subject property. The Auditorium (LACO No. 1261) retains its historical setting adjacent to LACO Nos. 1260, 1262, 1263, 1265, 1184, 1185, the Moreton Bay Fig Tree, and courtyard. Lastly, the Auditorium (LACO No. 1261) retains its original location.

As explained under the significance evaluation, the Auditorium (LACO No. 1261) is not individually significant under National Register Criterion C and California Register Criterion 3for architecture because it is not a distinctive example of Spanish Colonial Revival style architecture. Furthermore, the lack of design, materials, and workmanship further substantiates its individual ineligibility under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architectural significance.

Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263)

Architectural Description

The Dining Room, Kitchen, and Staff Room (LACO No. 1262) (**Figures 40 and 41**) is located in the central area of the District, in an area south of the Auditorium (LACO No. 1261), north and west of General Wards 30 and 40 (LACO Nos. 1184 and 1185), east of Workshop (LACO No.

1275), and north of Prosthetic Shop (LACO No. 3390). It is connected to its west elevation is the Commissary and Receiving Room (LACO No. 1263). Consisting of a series of additions completed between 1912 and 1926, it is a two-story brick building with an irregular footprint. Minor changes were observed during the 2017 survey as compared with the 2007-2011 Sapphos survey. These changes in the physical condition include the presence of a new metal "roll up" door within an original door opening on the east façade of the Dining and Reading Room portion, adjacent to another large door opening which appears to have been infilled with a smaller door. Based upon the 2017 survey, the LACO No. 1262 is in an overall deteriorated condition.

The Commissary and Receiving Room (LACO No. 1263) (**Figures 42 and 43**) is connected to the west elevation of the Dining Room, Kitchen, and Staff Room (LACO No. 1262). It is a two-story brick building with a rectangular plan and a "receiving" hyphen connecting it to LACO No. 1263. No changes were noted from the 2007-2011 Sapphos survey. Based upon the 2017 survey observations the building is in an overall deteriorated condition.



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 40
East and South Elevations of the Dining Room, Kitchen and Staff Room (LACO No. 1262), View Northwest



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 41
East and South Elevations of the Dining Room, Kitchen and Staff Room (LACO No. 1262), View Northwest



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 42
East and North Elevations of the Commissary and Receiving Room (LACO No. 1263), View Southwest



Rancho Los Amigos South Campus

SOURCE: ESA, June 2017

Figure 43
West and South Elevations of the Commissary and Receiving Room (LACO No. 1263), View Northeast

Significance Evaluation

Because the Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) were previously recommended individually eligible in two previous evaluations under National Register Criterion C and California Register Criterion 3 by Post/Hazeltine Associates and Sapphos, their individual eligibility under National Register Criterion C and California Register Criterion 3 was reevaluated. Both Post/Hazeltine and Sapphos evaluated LACO Nos. 1262 and 1263 as one building because they are physically connected, so following their precedent LACO Nos. 1262 and 1263 were reevaluated as one resource under the following historical and architectural themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952), Renaissance Revival and Brick Vernacular Architecture (1895-1935), and Hudson and Munsell. LACO Nos. 1262 and 1263 were built in approximately seven stages between 1912 and 1926 to accommodate the expanding patient population. The first portion of LACO No. 1263, the Commissary, was built in 1912 followed by the Receiving Room in 1926, the Dining Extension in 1920, and the final Dining Room addition, branching off the 1920 area, in 1924. The Dining and Reading Room, the earliest portion of the LACO NO. 1262, was constructed in 1913 and designed by architectural firm Hudson and

Munsell, and followed by the Kitchen addition in 1917, the Dining Extension in 1920, and the final Dining Room addition in 1924. Therefore, due to the seven additions in the space of 14 years, the architecture does not embody the distinctive characteristics of the Brick Vernacular style with Renaissance Revival style details. Rather, LACO Nos. 1262 and 1263 are representation of utilitarian architecture without a cohesive design. While the architecture firm of Hudson and Munsell designed the Dining Room in LACO No. 1262, it is an altered example and certainly not the most notable of their body of work. Additionally, the other additions are not identified with prominent architects. As such, the Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) are not a distinctive or recognizable example of Renaissance Revival and Brick Vernacular Architecture (1895-1935) and do not represent a notable work Hudson and Munsell. **Therefore, the Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) is not individually significant under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architecture.**

Integrity Analysis

Due to the substantial deterioration and alterations, the Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) do not retain integrity of design, workmanship or materials from the period of significance 1912 to 1926, when the buildings were constructed. Exterior alterations noted during the 2017 survey in comparison with historical photographs and plans have substantially compromised LACO Nos. 1262 and 1263's integrity of design, workmanship, and materials. Alterations to LACO No. 1262 include fire damage to the second story of the 1913 portion of the building; a non-original metal roll-up door on the east elevation; a large entryway infilled with a new door; removal of windows and doors; boarding up of most of the windows and doors; a small stucco addition along the west elevation; an added metal loading dock and canopy; masonry removed from the ornamental frieze at a corner downspout on the west elevation. And alterations to LACO No. 1263 include a small stucco addition along the northeast portion and boarded doors and windows. Furthermore, there is substantial deterioration of the brick masonry work on both exteriors of LACO Nos. 1262 and 1263.

Despite these alterations to the original design, the Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) retain their integrity of association under the historical theme of Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952) and their feeling as a social hub on the subject property. LACO Nos. 1262 and 1263 retain their historical setting adjacent to LACO Nos. 1184-1188, 1262, 1264, 1275, the Moreton Bay Fig Tree, and courtyard. Lastly, the LACO Nos. 1262 and 1263 retain their original location.

As explained under the significance evaluation, the Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) are not individually significant under National Register Criterion C and California Register Criterion 3 for architecture because they are not a distinctive example of Brick Vernacular architecture. Furthermore, alterations and the substantial deterioration of the exterior masonry has eroded the simplistic Brick Vernacular architecture and the refined Renaissance Revival style details.

Therefore, the lack of design, materials, and workmanship further substantiates their individual ineligibility under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architectural significance.

Conclusion

The District was previously determined eligible for the National Register under Criterion A by a consensus through the Section 106 process and was listed in the California Register under Criterion 1 for its association with the early healthcare of the County's indigent population and later treatment of patients with chronic illnesses or mental disorders. The District was assigned a period of significance of 1888-1945. The District was resurveyed in 2004 by Post/Hazeltine Associates and recommended ineligible. It was resurveyed again in 2007-2011 by Sapphos, who concurred with the original eligibility determination, identifying 68 contributors within the District. Sapphos also recommended extending the period of significance to 1952.

In this current survey, the District has been reevaluated under the following expanded historical and architectural themes based upon additional research: Advancements in Public Health and Medical Care (1870-1920); Housing the Poor in the California (1850-1930); Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952); Early Hospital Architecture (1880-1930); Craftsman Architecture (1905-1930); Neoclassical Revival Architecture (1885-1930); Renaissance Revival and Brick Vernacular (1895-1935); and Spanish Colonial Revival (1915-1940).

Based upon extensive research and fieldwork, this survey concludes that the District remains eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. Furthermore, the District appears eligible under Los Angeles County Criterion 1. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Additionally, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district) and meets Los Angeles County Criterion 5 as a resource determined eligible for the National Register and listed in the California Register. This survey concludes that the District's period of significance extends to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. This survey also concludes that the District's boundary extends near the southeast corner to include the entirety of the Site Plan. The new District boundary encompasses additional portions of Consuelo Street, Bonita Street, and Dalia Avenue and the associated landscape areas east of the Administration Building (LACO No. 1100). These elements of Rancho Los Amigos' site plan contribute to the District's character and setting and continue to exhibit a high level of integrity from the period of significance. The new District boundary follows the natural contours of the landscape and would contain the contiguous grouping of 61 buildings and features contributing to the district's significant association with healthcare in Los Angeles County during the late nineteenth and early twentieth centuries (see Figure 33).

The District continues to meet the National Register and California Register integrity requirements, retaining its integrity of location, design, workmanship, materials, setting, feeling, and association. The District remains in its original location since it opened as a poor farm in 1888. Although the District no longer reflects Kysor, Morgan, and Walls' original design for the Poor Farm, as constructed in 1888, later changes to the subject property have acquired significance under National Register Criterion A, California Register Criterion 1, and Los Angeles County Criterion 1.

Furthermore, many of the buildings constructed during the period of significance (1888-1952) remain largely intact with few alterations, are representative examples of their property type and style and continue to convey their function and have acquired significance under National Register Criterion C. Of the 109 buildings, structures, and features identified within the District, there are 61 contributors, representing seven different building types, that reflect their different uses and the overall function of the subject property as it evolved into a long-term healthcare facility. The remaining 48 buildings, structures, and features within the District are non-contributors. A complete record of contributing and non-contributing buildings, structures, and features, including their previous evaluations, is presented in Appendix H.

A majority of the buildings and structures in the District lack individual distinction. Their historical significance is directly tied to the overall use of the subject property as a poor farm or a long-term healthcare facility and therefore do not exhibit individual significance and are not eligible for individual listing on the National Register or California Register. However, this survey identifies five buildings and structures as individually eligible under Criteria C/3/3 due to their architectural merit. These include: Administration/Safety Police Building (LACO No. 1100), Casa Consuelo (LACO No. 1238), and the Power Plant (LACO No. 1300), Water Tower (LACO No. 1301), and Shop, Laundry and Ice Plant (LACO No. 1302). Further, the Moreton Bay Fig Tree appears to meet the significance requirements of Los Angeles County Criterion 6 and 7 as an individual feature. Los Angeles County Criterion 6 recognizes trees that are the largest or oldest of their species in the County, while Criterion 7 recognizes trees, landscapes, or other natural features that are a defining or significant feature of a neighborhood.

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Appendix A
Professional Qualifications



Monica Strauss, RPA

Director, Southern California Cultural Resources Group

EDUCATION

M.A., Archaeology, California State University, Northridge

B.A., Anthropology, California State University, Northridge

AA, Humanities, Los Angeles Pierce College

19 YEARS EXPERIENCE

SPECIALIZED EXPERIENCE

Treatment of Historic and Prehistoric Human Remains

Archaeological Monitoring

Complex Shell Midden Sites

Groundstone Analysis

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists (RPA), #12805

Society for California Archaeology (SCA)

Society for American Archaeology (SAA)

QUALIFICATIONS

Exceeds Secretary of Interior Standards

CA State BLM Permitted

Monica has successfully completed dozens of cultural resources projects throughout California and the greater southwest, where she assists clients in navigating cultural resources compliance issues in the context of CEQA, NEPA, and Section 106. Monica has extensive experience with archaeological resources, historic buildings and infrastructure, landscapes, and Tribal resources, including Traditional Cultural Properties. Monica manages a staff of cultural resources specialists throughout the region who conduct Phase 1 archaeological/ paleontological and historic architectural surveys, construction monitoring, Native American consultation, archaeological testing and treatment, historic resource significance evaluations, and large-scale data recovery programs. She maintains excellent relationships with agency staff and Tribal representatives. Additionally, Monica manages a general compliance monitoring team who support clients and agencies in ensuring the daily in-field compliance of overall project mitigation measures.

Relevant Experience

County of Los Angeles, Department of Public Works, Rancho Los Amigos South Campus EIR, Downey. CA. *Project Manager*. The County of Los Angeles (County) proposes redevelopment of a portion of the Rancho Los Amigos (RLA) South Campus which is located in the City of Downey. The 74-acre RLA South Campus was the home of the "Los Angeles County Poor Farm" that was established in 1880s to provide room and board to indigent citizens in exchange for agricultural labor, then served as an infirmary and later evolved into a hospital facility in 1932. The RLA South Campus functioned as a major hospital complex from 1956 to the 1990s, when it was abandoned. The RLA South Campus is currently unoccupied and has been designated as the RLA Historic District in the National Register of Historic Places. The County is proposing redevelopment of a 21-acre portion of the RLA South Campus with County uses, including a Sheriff's Station Crime Laboratory, Internal Services Department Headquarters, and Probation Department Headquarters. The project will include supporting parking and installation of utilities and other features on a site that has been abandoned for nearly 30 years. Building demolition and/or repurposing or relocation of existing buildings will be required. ESA is leading the CEQA process on behalf of the County, including preparation of all technical studies in support of a full-scope EIR for the RLA South Campus Project. This includes a Historic District Evaluation, archaeological surveys, traffic, water supply, arborist services, and all other CEQA-required topics. ESA is also serving in an Executive Consultant role to the County, to advise on other potential future projects at the RLA Campus.

County of Los Angeles, Department of Public Works, Arroyo Seco Bike Path Phase I Cultural Resources Evaluation, Los Angeles, CA. *Project Director.* Working for the County of Los Angeles, Department of Public Works in connection with a project to make improvements to the Arroyo Seco Channel, Monica managed all aspects of Section 106 review in accordance with Caltrans Cultural

Resources Environmental guidelines. Monica and her team evaluated the Arroyo Seco Channel, identified character-defining features, informed the design of channel improvements to retain such features, and addressed the channels' potential for eligibility as part of a larger Los Angeles Country water management district. She developed the research strategy, directed the field teams, and prepared cultural resources assessment documentation for approval by Caltrans and FHWA, as well as the cultural resources section for a Mitigated Negative Declaration.

Los Angeles Department of Water and Power La Kretz Innovation Campus, Los Angeles County, CA. *Project Director.* The project involved the rehabilitation of the 61,000-square-foot building located at 518-524 Colyton Street, demolition of the building located at 537-551 Hewitt Street, and construction of an open space public plaza and surface parking lot, and involved compliance with Section 106 of the National Historic Preservation Act and consultation with the California State Historic Preservation Officer. ESA is providing archaeological monitoring and data recovery services and is assisting LADWP with meeting their requirements for Section 106 of the National Historic Preservation Act. Monica is providing oversight to archaeological monitors and crew conducting resource data recovery and laboratory analysis, and is providing guidance to LADWP on meeting Section 106 requirements.

Los Angeles Unified School District (LAUSD) Florence Nightingale Middle School Historic Architectural Review, Los Angeles County, CA. *Cultural Resources Project Director*. Monica managed the historical analysis of the LAUSD Florence Nightingale Middle School. The analysis included a cultural resources survey that photo-documented buildings that would be affected by the project. The project includes HVAC replacement to a 1967 Classroom Buildings, kitchen upgrades within the 1937 Domestic Science/Cafeteria Building, and improvements to the 1965 chiller yard. Florence Nightingale Middle School was previously recommended eligible for listing in the California Register.

Los Angeles Unified School District, Central Los Angeles High School #9. Los Angeles, CA. *Project Director.* ESA contributed to Data Recovery Report sections for Los Angeles Unified School District's Central High School #9, constructed in downtown Los Angeles. Between 2004 and 2009, Monica led a team of archaeological staff of ten who conducted archaeological monitoring and data recovery of archaeological materials in connection with the 19th century Los Angeles City Cemetery. She coordinated with the Los Angeles County Coroner and office of Vital Statistics to obtain disinterment permits and developed a mitigation plan incorporating components related to the future disposition of remains, artifact curation, and commemoration. She directed an extensive historical research effort to identify the human remains, and at the request of the client, participated in public outreach and coordination with media.



Margarita Jerabek, PhD

Historic Resources Director

EDUCATION

Ph.D., Art History, University of California, Los Angeles

M.A., Architectural History, School of Architecture, University of Virginia

Certificate of Historic Preservation, School of Architecture, University of Virginia

B.A., Art History, Oberlin College

30 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Santa Monica Conservancy

Los Angeles Conservancy

Society of Architectural Historians

National Trust for Historic Preservation Leadership Forum

American Institute of Architects (AIA), National Allied Member

American Architectural Foundation

Association for Preservation Technology

Margarita Jerabek has 30 years of professional practice in the United States with an extensive background in historic preservation, architectural history, art history and decorative arts, and historical archaeology. She specializes in Visual Art and Culture, 19th-20th Century American Architecture, Modern and Contemporary Architecture, Architectural Theory and Criticism, Urbanism, and Cultural Landscape, and is a regional expert on Southern California architecture. Her qualifications and experience meet and exceed the Secretary of the Interior's Professional Qualification Standards in History, Architectural History, and Archaeology.

Dr. Jerabek has managed and conducted a wide range of technical studies in support of environmental compliance projects, developed preservation and conservation plans, and implemented preservation treatment projects for public and private clients throughout California and the United States. She provides expert assistance with environmental review, from due diligence through planning/design review and permitting and when necessary, implements mitigation and preservation treatment measures. Dr. Jerabek regularly performs assessments to ensure conformance with the Secretary of the Interior's Standards for the Treatment of Historic Properties, and assists clients with adaptive reuse/rehabilitation projects by providing preservation design and treatment consultation, agency coordination, legally defensible documentation, construction monitoring and conservation treatment.

As primary investigator and author of hundreds of technical reports, plan review documents, preservation and conservation plans; Historic American Buildings Survey (HABS), Historic American Engineering Record (HAER), Historic American Landscapes Survey (HALS) reports; construction monitoring reports; and salvage reports and relocation plans, she is a highly experienced practitioner and expert in addressing historical resources issues while supporting and balancing project goals. Dr. Jerabek is an expert in the evaluation, management and treatment of historic properties for compliance with Sections 106 and 110 of the National Historic Preservation Act (NHPA), National Environmental Policy Act (NEPA), Section 4(f) of the Department of Transportation Act, California Environmental Quality Act (CEQA), and local ordinances and planning requirements.

Relevant Experience

County of Los Angeles, Department of Public Works, Rancho Los Amigos South Campus EIR, Downey. CA. *Principal Investigator*. The County of Los Angeles (County) proposes redevelopment of a portion of the Rancho Los Amigos (RLA) South Campus which is located in the City of Downey. The 74-acre RLA South Campus was the home of the "Los Angeles County Poor Farm" that was established in 1880s to provide room and board to indigent citizens in exchange for agricultural labor, then served as an infirmary and later evolved into a hospital facility in 1932. The RLA South Campus functioned as a major hospital complex from 1956 to the 1990s, when it was abandoned. The RLA South Campus is

currently unoccupied and has been designated as the RLA Historic District in the National Register of Historic Places. The County is proposing redevelopment of a 21-acre portion of the RLA South Campus with County uses, including a Sheriff's Station Crime Laboratory, Internal Services Department Headquarters, and Probation Department Headquarters. The project will include supporting parking and installation of utilities and other features on a site that has been abandoned for nearly 30 years. Building demolition and/or repurposing or relocation of existing buildings will be required. ESA is leading the CEQA process on behalf of the County, including preparation of all technical studies in support of a full-scope EIR for the RLA South Campus Project. This includes a Historic District Evaluation, archaeological surveys, traffic, water supply, arborist services, and all other CEQA-required topics. ESA is also serving in an Executive Consultant role to the County, to advise on other potential future projects at the RLA Campus.

Fred C. Nelles School, 11850 Whittier Boulevard, Whittier, CA. *Project Manager and Senior Architectural Historian*. ESA is providing on-going historical resources management and preservation consultation services for the redevelopment of a 72-acre site and rehabilitation of four principal historic buildings on the now vacant, formerly state-owned Fred C. Nelles Youth Correctional Facility (Whittier State School). Opened in 1891, the school is a California State Historical Landmark (1997) and is an historical resource pursuant to CEQA. ESA prepared a Historic American Building Survey (HABS) report as part of the mitigation program and provided preservation design consultation for development of the preferred project, including the rehabilitation of four historic buildings to be retained including the Superintendent's Residence, Administration Building, Assistant Superintendent's Residence, and Chapels Building. The consultation included plan reviews for the site development plan, Certificate of Appropriateness submittal package for the architectural plans, and Tenant Improvement plans, ensuring that the project conformed with the Secretary of the Interior's Standards for Rehabilitation.

The Culver Studios, Culver City, CA. *Project Manager and Senior Architectural Historian.* ESA completed a Historic Resources Assessment report for The Culver Studios, a motion picture studio located in downtown Culver City. Originally constructed by Thomas Ince in 1919, the Studio eventually became the home of RCA, identified as one of the "Big Eight" major motion picture companies in the Los Angeles metropolitan area. The Studio was the production site of historically significant motion pictures like King Kong, Gone with the Wind, and Citizen Kane. ESA's architectural evaluation involved an intensive pedestrian site survey and photography of the studio property and the 21 buildings constructed within the Studio's period of significance (1918–1949). Historic research included a review of past survey reports, building permits, assessor's records, historic maps, and historic aerial photos. In order to assess the property as a potential historic district, ESA developed a motion picture studio property type using guidelines developed by the City of Los Angeles' SurveyLA program and investigated the types of facilities historically found at all of the Big Eight studios up to the 1950s, generally considered the end of the Big Eight era. Using the developed property type, ESA determined that The Culver Studios lacked enough primary contributing features to accurately represent one of the Big Eight major motion picture studios and therefore, was not eligible for consideration as a historic district. Although the site did not qualify as a historic district, ESA found several of the buildings individually eligible at the local, state, and national level for their architectural significance. Based on these findings, ESA recommended mitigation measures allowing the proposed project to move forward without causing a significant impact to historic resources.



Candace R. Ehringer, RPA

Senior Cultural Resources Specialist

EDUCATION

M.A., Anthropology, California State University, Northridge

B.A., Anthropology, East Carolina University

19 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists, No. 15146

Society for California Archaeology

Society for Historical Archaeology

CONTINUING EDUCATION

AEP Advanced CEQA Workshop, 2011

Candace is a cultural resources project manager with 19 years of experience working across California. She provides technical and compliance oversight for projects involving archaeological survey, evaluation, and treatment; built environment studies, including the documentation and evaluation of buildings, structures, and districts; and paleontological resources survey and sensitivity assessments. She is proficient in the areas of California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), and Section 106 compliance and routinely provides planning and strategic guidance to clients within the larger scope of state and federal regulations. Candace manages multi-disciplinary cultural resources projects that include archaeological, historic architectural, and paleontological resources components. She is adept at building teams of specialists from these resource areas that are uniquely qualified for the particular project at hand and has brought hundreds of projects to successful completion for both public agency and private development clients.

Relevant Experience

County of Los Angeles, Department of Public Works, Rancho Los Amigos South Campus EIR, Downey. CA. *Project Manager*. The County of Los Angeles (County) proposes redevelopment of a portion of the Rancho Los Amigos (RLA) South Campus which is located in the City of Downey. The 74-acre RLA South Campus was the home of the "Los Angeles County Poor Farm" that was established in 1880s to provide room and board to indigent citizens in exchange for agricultural labor, then served as an infirmary and later evolved into a hospital facility in 1932. The RLA South Campus functioned as a major hospital complex from 1956 to the 1990s, when it was abandoned. The RLA South Campus is currently unoccupied and has been designated as the RLA Historic District in the National Register of Historic Places. The County is proposing redevelopment of a 21-acre portion of the RLA South Campus with County uses, including a Sheriff's Station Crime Laboratory, Internal Services Department Headquarters, and Probation Department Headquarters. The project will include supporting parking and installation of utilities and other features on a site that has been abandoned for nearly 30 years. Building demolition and/or repurposing or relocation of existing buildings will be required. ESA is leading the CEQA process on behalf of the County, including preparation of all technical studies in support of a full-scope EIR for the RLA South Campus Project. This includes a Historic District Evaluation, archaeological surveys, traffic, water supply, arborist services, and all other CEQA-required topics. ESA is also serving in an Executive Consultant role to the County, to advise on other potential future projects at the RLA Campus.

California Department of Water Resources, Serrano Beach Project, Los Angeles County, CA. *Project Manager*. Candace managed a Phase I cultural resources study, including archival research, survey, and report. DWR proposes to repair culverts along the Serrano Beach access road near the Pyramid Lake Vista

Del Lago Visitors Center, replacement of a fence surrounding an existing water tank, and installation of a new water pipeline near the Warne Powerplant. The project is located within the Angeles National Forest, requiring compliance with Section 106 of the National Historic Preservation Act. The study concluded that the area is sensitive for archaeological resources and monitoring was recommended.

Metropolitan Water District of Southern California (MWD), F.E. Weymouth Treatment Plant Improvement Program, Los Angeles County, CA. *Senior Reviewer.* MWD is proposing to implement the F.E. Weymouth Treatment Plant Improvement Program. The proposed project consists of the following elements: Chlorine Transloading Project, Filter Rehabilitation Project, Solar Power Generation Project, Weymouth Improvement Projects, and Miscellaneous Studies and Investigations. The proposed project would upgrade and/or construct new facilities at the existing Weymouth Plant to accommodate the plant's maximum operating capacity and update the overall facility. Candace provided senior review of the cultural resources section of the EIR.

Santa Clarita Valley Sanitation District, Facilities Plan Update EIR, Los Angeles County, CA. *Cultural Resources Project Manager.* Candace managed the Phase I cultural resources study for the project. The study identified 26 cultural resources within or adjacent to the project, including the historical San Fernando Road. Candace authored a historical context and evaluated the road for its eligibility to the National Register and California Register. The results of the study were incorporated in the EIR. The project includes installation of an approximately 35-mile recycled water pipeline from the Santa Clarita Valley to east Los Angeles.

Port of Los Angeles, Marine Oil Terminal Engineering Maintenance Standards Historic Resources Evaluation, Los Angeles County, CA. *Archival Researcher.* Candace conducted historic research in support of the evaluation of approximately 16 timber wharves and co-authored the historical context. The wharves date to circa 1925 and would be subject to alterations, including new piling, decking, and fendering systems, in order to accommodate greater shipping loads, as well as seismic and life/safety improvements. Two sets of timber wharves at Berths 150-151 and 163-164 were identified as eligible for listing in the National Register and California Register as contributors to two marine oil terminal districts.

Los Angeles Unified School District, Florence Nightingale Middle School Historic Architectural Review, Los Angeles, CA. *Surveyor.* Candace conducted the cultural resources survey and photo-documented buildings that would be affected by the project. The project includes HVAC replacement to a 1967 Classroom Buildings, kitchen upgrades within the 1937 Domestic Science/Cafeteria Building, and improvements to the 1965 chiller yard. Florence Nightingale Middle School was previously recommended eligible for listing in the California Register.



Amanda Kainer

Senior Architectural Historian

EDUCATION

M.S., Historic Preservation (Emphasis: Conservation Science), Columbia University, New York, New York

B.S., Design (Emphasis: Interior Architecture), University of California, Davis

B.A., Art History, University of California, Davis, 2002

9 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Los Angeles Conservancy

Santa Monica Conservancy

Docomomo SoCal

Association of Preservation Technology Western Chapter

Society of Architectural Historians

AWARDS

Joel Polsky Academic Achievement Award, American Society of Interior Designers

Amanda Kainer has more than ten years of professional and academic experience in the practice of historic preservation and architectural history. She has training and substantial experience in the evaluation and conservation of art and architecture and passion for interior design. With that broad expertise, she easily navigates projects that range from historic research and documentation through comprehensive building restoration and rehabilitation. She has conducted extensive archival research, field observation, and recordation for numerous historic documentation projects encompassing a variety of property types throughout Southern California.

Relevant Experience

County of Los Angeles, Department of Public Works, Rancho Los Amigos South Campus EIR, Downey. CA. *Deputy Project Manager*. The County of Los Angeles (County) proposes redevelopment of a portion of the Rancho Los Amigos (RLA) South Campus which is located in the City of Downey. The 74-acre RLA South Campus was the home of the "Los Angeles County Poor Farm" that was established in 1880s to provide room and board to indigent citizens in exchange for agricultural labor, then served as an infirmary and later evolved into a hospital facility in 1932. The RLA South Campus functioned as a major hospital complex from 1956 to the 1990s, when it was abandoned. The RLA South Campus is currently unoccupied and has been designated as the RLA Historic District in the National Register of Historic Places. The County is proposing redevelopment of a 21-acre portion of the RLA South Campus with County uses, including a Sheriff's Station Crime Laboratory, Internal Services Department Headquarters, and Probation Department Headquarters. The project will include supporting parking and installation of utilities and other features on a site that has been abandoned for nearly 30 years. Building demolition and/or repurposing or relocation of existing buildings will be required. ESA is leading the CEQA process on behalf of the County, including preparation of all technical studies in support of a full-scope EIR for the RLA South Campus Project. This includes a Historic District Evaluation, archaeological surveys, traffic, water supply, arborist services, and all other CEQA-required topics. ESA is also serving in an Executive Consultant role to the County, to advise on other potential future projects at the RLA Campus.

Historical Resources Consultation Services for the Redevelopment of the Nelles School Site and Implementation of Mitigation Measures. *Deputy Project Manager.* Amanda is providing historical resources management and preservation consultation services for a project to redevelop the Fred C. Nelles School site, located in Whittier, California. Originally named the "Reform School for Juvenile Offenders," the Fred C. Nelles Youth Correctional Facility is the State's oldest school for juvenile offenders, which is a California State Historical Landmark (1997). The scope of work included and architectural survey and assessment of the Nelles site, preparation of an assessment report, community outreach, preservation

design consultation for development of project alternatives for the Environmental Impact Report (EIR), peer review of the Draft EIR prepared by the City and a historic resources technical report prepared by the City's consultant, and preparation of a HABS HALS recordation documents for the Nelles site. Currently, Amanda is assisting with the provision of oversight on implementation of the mitigation program, which includes providing preservation consultation to the project team for the rehabilitation and the preparation of four buildings on the site, which has involved the following services: character-defining features treatment schedule, SOI Standards plan reviews, paint analyses, a salvage plan, and a relocation plan for one of the buildings.

The Culver Studios, Culver City, CA. *Architectural Historian.* ESA completed a Historic Resources Assessment report for The Culver Studios, a motion picture studio located in downtown Culver City. Originally constructed by Thomas Ince in 1919, the Studio eventually became the home of RCA, identified as one of the "Big Eight" major motion picture companies in the Los Angeles metropolitan area. The Studio was the production site of historically significant motion pictures like King Kong, Gone with the Wind, and Citizen Kane. ESA's architectural evaluation involved an intensive pedestrian site survey and photography of the studio property and the 21 buildings constructed within the Studio's period of significance (1918–1949). Historic research included a review of past survey reports, building permits, assessor's records, historic maps, and historic aerial photos. In order to assess the property as a potential historic district, ESA developed a motion picture studio property type using guidelines developed by the City of Los Angeles' SurveyLA program and investigated the types of facilities historically found at all of the Big Eight studios up to the 1950s, generally considered the end of the Big Eight era. Using the developed property type, ESA determined that The Culver Studios lacked enough primary contributing features to accurately represent one of the Big Eight major motion picture studios and therefore, was not eligible for consideration as a historic district. Although the site did not qualify as a historic district, ESA found several of the buildings individually eligible at the local, state, and national level for their architectural significance. Based on these findings, ESA recommended mitigation measures allowing the proposed project to move forward without causing a significant impact to historic resources.

The Academy Museum of Motion Pictures, Los Angeles, CA. *Architectural Historian.* ESA prepared the EIR for development of the Academy Museum of Motion Pictures, which will be dedicated to films and filmmaking. The Museum, which is currently under construction, will be located on the Los Angeles County Museum of Art campus, at the western edge of Wilshire Boulevard's Museum Row. The project involves the rehabilitation and adaptive reuse of the historic May Company Building originally built in 1939, and the addition of a new wing. ESA was involved with the project in its early design stages and helped influence proactive changes and refinements to the project to avoid impacts associated with historic resources. ESA prepared a comprehensive Historic Resources Assessment, defined a Materials Conservation and Preservation Plan as a design feature, and provided input on changes to the May Company Building and the design of the new wing to support compliance with the Secretary of the Interior's Standards for Rehabilitation.



EDUCATION

Master's Degree, Historic Preservation, University of Southern California, Los Angeles

B.A., History, University of Oklahoma, Norman

4 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Society of Architectural Historians

Association for Preservation Technology

Christian Taylor

Senior Architectural Historian

Christian Taylor is a historic resources specialist with academic and professional experience in assessing historic structures and contributing to California Environmental Quality Act (CEQA)-level documents. Christian continues to hone his skills in management of rehabilitation and restoration projects, preparation of historic contexts, the use of non-invasive material investigation methods and advanced methods of documentation, and historic resource assessments.

Relevant Experience

County of Los Angeles, Department of Public Works, Rancho Los Amigos South Campus EIR, Downey. CA. *Architectural Historian*. The County of Los Angeles (County) proposes redevelopment of a portion of the Rancho Los Amigos (RLA) South Campus which is located in the City of Downey. The 74-acre RLA South Campus was the home of the "Los Angeles County Poor Farm" that was established in 1880s to provide room and board to indigent citizens in exchange for agricultural labor, then served as an infirmary and later evolved into a hospital facility in 1932. The RLA South Campus functioned as a major hospital complex from 1956 to the 1990s, when it was abandoned. The RLA South Campus is currently unoccupied and has been designated as the RLA Historic District in the National Register of Historic Places. The County is proposing redevelopment of a 21-acre portion of the RLA South Campus with County uses, including a Sheriff's Station Crime Laboratory, Internal Services Department Headquarters, and Probation Department Headquarters. The project will include supporting parking and installation of utilities and other features on a site that has been abandoned for nearly 30 years. Building demolition and/or repurposing or relocation of existing buildings will be required. ESA is leading the CEQA process on behalf of the County, including preparation of all technical studies in support of a full-scope EIR for the RLA South Campus Project. This includes a Historic District Evaluation, archaeological surveys, traffic, water supply, arborist services, and all other CEQA-required topics. ESA is also serving in an Executive Consultant role to the County, to advise on other potential future projects at the RLA Campus.

Fred C. Nelles School, 11850 Whittier Boulevard, Whittier, CA. *Architectural Historian*. ESA is providing on-going historical resources management and preservation consultation services for the redevelopment of a 72-acre site and rehabilitation of four principal historic buildings on the now vacant, formerly state-owned Fred C. Nelles Youth Correctional Facility (Whittier State School). Opened in 1891, the school is a California State Historical Landmark (1997) and is an historical resource pursuant to CEQA. ESA prepared a Historic American Building Survey (HABS) report as part of the mitigation program and provided preservation design consultation for development of the preferred project, including the rehabilitation of four historic buildings to be retained including the Superintendent's Residence, Administration Building, Assistant Superintendent's Residence, and Chapels Building. The consultation included plan reviews for the

site development plan, Certificate of Appropriateness submittal package for the architectural plans, and Tenant Improvement plans, ensuring that the project conformed with the Secretary of the Interior's Standards for Rehabilitation.

The Culver Studios, Culver City, CA. *Architectural Historian.* ESA completed a Historic Resources Assessment report for The Culver Studios, a motion picture studio located in downtown Culver City. Originally constructed by Thomas Ince in 1919, the Studio eventually became the home of RCA, identified as one of the "Big Eight" major motion picture companies in the Los Angeles metropolitan area. The Studio was the production site of historically significant motion pictures like King Kong, Gone with the Wind, and Citizen Kane. ESA's architectural evaluation involved an intensive pedestrian site survey and photography of the studio property and the 21 buildings constructed within the Studio's period of significance (1918–1949). Historic research included a review of past survey reports, building permits, assessor's records, historic maps, and historic aerial photos. In order to assess the property as a potential historic district, ESA developed a motion picture studio property type using guidelines developed by the City of Los Angeles' SurveyLA program and investigated the types of facilities historically found at all of the Big Eight studios up to the 1950s, generally considered the end of the Big Eight era. Using the developed property type, ESA determined that The Culver Studios lacked enough primary contributing features to accurately represent one of the Big Eight major motion picture studios and therefore, was not eligible for consideration as a historic district. Although the site did not qualify as a historic district, ESA found several of the buildings individually eligible at the local, state, and national level for their architectural significance. Based on these findings, ESA recommended mitigation measures allowing the proposed project to move forward without causing a significant impact to historic resources.

Rocketdyne Historic American Engineering Record, Los Angeles, CA. *Architectural Historian.* ESA prepared a Historic American Engineering Record (HAER), documenting the former home of Rocketdyne in Canoga Park, Los Angeles, California. The HAER included a thorough investigation of the site's history, description of the various buildings and their uses, historic images, plans, and HAER level photography of the site. The report has been compiled and is currently being reviewed for submission to the Library of Congress in compliance with mitigation required for the redevelopment of the site.

Capitol Milling Company, 1231 N. Spring Street, Los Angeles, CA. *Architectural Historian*. ESA's Historic Resources Division conducted an intensive pedestrian survey, historical research, and evaluation of the mill. Research included a review of building permits, assessor's records, historical Los Angeles Times articles, historical maps, and historical aerial photos. Based on this research, ESA identified the Capitol Milling Company Building as eligible for listing on the National Register, California Register, and as a local landmark for its significant association with the early industrial development of Los Angeles and the national trend of milling advancements in the late 19th century. ESA developed a character-defining features table and provided guidance to the client's architect, ensuring the project plans complied with the Secretary of the Interior's Standards for Rehabilitation and gained approval from the City of Los Angeles' Office of Historic Resources. Upon completion, the project will successfully reintroduce this important historic resource to the public, highlighting Los Angeles' rich industrial and agricultural heritage.



Adam Rajper

Senior Architectural Historian

EDUCATION

M.S., Historic Preservation (Concentration: Conservation Science), Columbia University, New York, New York

B.Arch, California State Polytechnic University, Pomona

5 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Los Angeles Conservancy

Preservation Alumni

Society of Architectural Historians

AWARDS

Robert C. Weinberg Award for Excellence in Preservation Planning and Design, 2008

William Kinne Fellows Traveling Prize, 2008

Alpha Rho Chi Medal for Leadership, Service, and Merit, 2004

Adam is an architectural historian with over five years of experience in the research and education of cultural resources in the United States and abroad, as well as the assessment of historic structures and preparation of California Environmental Quality Act (CEQA)-level documents. His qualifications and experience meet and exceed the Secretary of the Interior's Professional Qualification Standards in History and Architectural History. Adam's professional experience and combination of academic degrees provides him with a broad and advantageous skillset, including strong technical and research skills, as well as the ability to approach preservation from a multi-disciplinary perspective.

Relevant Experience

County of Los Angeles, Department of Public Works, Rancho Los Amigos South Campus EIR, Downey. CA. *Architectural Historian*. The County of Los Angeles (County) proposes redevelopment of a portion of the Rancho Los Amigos (RLA) South Campus which is located in the City of Downey. The 74-acre RLA South Campus was the home of the "Los Angeles County Poor Farm" that was established in 1880s to provide room and board to indigent citizens in exchange for agricultural labor, then served as an infirmary and later evolved into a hospital facility in 1932. The RLA South Campus functioned as a major hospital complex from 1956 to the 1990s, when it was abandoned. The RLA South Campus is currently unoccupied and has been designated as the RLA Historic District in the National Register of Historic Places. The County is proposing redevelopment of a 21-acre portion of the RLA South Campus with County uses, including a Sheriff's Station Crime Laboratory, Internal Services Department Headquarters, and Probation Department Headquarters. The project will include supporting parking and installation of utilities and other features on a site that has been abandoned for nearly 30 years. Building demolition and/or repurposing or relocation of existing buildings will be required. ESA is leading the CEQA process on behalf of the County, including preparation of all technical studies in support of a full-scope EIR for the RLA South Campus Project. This includes a Historic District Evaluation, archaeological surveys, traffic, water supply, arborist services, and all other CEQA-required topics. ESA is also serving in an Executive Consultant role to the County, to advise on other potential future projects at the RLA Campus.

Historic Structures Report for the RMS Queen Mary, 1126 Queens Highway, Long Beach, CA. *Architectural Historian.* Adam assisted with the preparation of a historic structures report for the Cunard-White Star ocean liner, the RMS Queen Mary, now permanently moored in Long Beach and listed, as of 1993, in the National Register of Historic Places. The purpose of the report, prepared for the City of Long Beach, was to record existing conditions and serve as a guide for a maintenance plan and any changes made to the ship during repair, rehabilitation, or restoration. While co-authoring the report, Adam conducted extensive research

on the RMS Queen Mary's historic spaces and materials and identified the most appropriate approaches to treatment and maintenance.

CEQA Plan Review and Certificate of Appropriateness Report, The Bijou Building, 1221 and 1227 Hermosa Avenue, Hermosa Beach, CA. *Architectural Historian.* The Bijou Building, designed by architect Richard Douglas King in the Neoclassical Revival style and constructed in 1923, is a designated City of Hermosa Beach landmark. In 2017, the City retained ESA to prepare a CEQA plan review and Certificate of Appropriateness report for conformance with the Secretary of the Interior's Standards for two interior tenant improvement projects. Adam's responsibilities included meeting attendance, fieldwork, research, character-defining features analysis, and report preparation.

LAUSD, Palms Middle School, Los Angeles, CA. *Architectural Historian. In 2012,* SurveyLA determined Palms Middle School eligible for listing in the National Register of Historic Places and California Register of Historical Resources, as well as a City of Los Angeles Historic-Cultural Monument. As such, the school is considered a historical resource pursuant to CEQA. In April 2016, LAUSD retained ESA PCR to prepare a plan review for the Palms Middle School Minor Upgrades Project consisting of restroom upgrades in the Physical Education Building as well as playground improvements and asphaltic concrete resurfacing. Adam reviewed the project for conformance with the Secretary of the Interior's Standards for Rehabilitation and assessed potential impacts.

LAUSD, San Pedro High School, San Pedro, CA. *Architectural Historian.* In 1994, San Pedro High School was determined eligible for listing in the National Register of Historic Places through the Section 106 process and listed in the California Register of Historical Resources. As such, the school is considered a historical resource pursuant to CEQA. In June 2015, LAUSD retained ESA PCR to prepare a Character-Defining Features Memorandum for the school, to be used in conjunction with the LAUSD Guidelines and Treatment Approaches for Historic Schools to avoid significant adverse impacts resulting from a modernization and upgrades project. As a member of ESA PCR's Historic Resources Division, Adam provided assistance in the preparation of the character-defining features analysis.



Max Loder

Associate Architectural Historian

EDUCATION

M.A., Public History with a concentration in Historic Preservation, University of California, Riverside

B.A, History, University of California, Los Angeles

4 YEARS EXPERIENCE

Max Loder is an architectural historian with more than four years of professional experience performing field surveys and preparing DPR forms; preparing statements of significance; conducting historical analysis, composing architectural descriptions; and conducting necessary project research. He also has a year of public sector planning experience in design review. He has worked closely with private individuals, public officials, and large and small organizations to help work toward solutions to their historic and planning needs.

Experience

Department of City Planning, City of Los Angeles. *Historic Preservation Overlay Zones (HPOZ) Unit in the Office of Historic Resources.* Assisted HPOZ staff with client walk-ins, conducting design review, drafting casework letters/certificates, and public outreach/presentations regarding adoption of HPOZs. Conducted field surveys of several HPOZs, using photography and making note of historical elements. Corrected technical elements on databases of HPOZ properties and research historical patterns of neighborhood growth. Communicated with project applicants to improve their projects' conformance with preservation guidelines.

SR 710 North Project, South Pasadena, CA. *Architectural Historian.* Worked on a project-hire basis for a consulting firm on findings of no adverse effect related to the SR 710 North project. Specifically worked on the descriptions of historic properties and resources sections of the findings.

University of California, Riverside. *History Graduate Teaching Assistant.* Engagingly led three sections of approximately 25 undergraduates each. Prepared detailed lessons to review course material and primary sources in depth. Fielded student questions/concerns and evaluated students' examinations, papers and course performance.

The Young Oak Kim Center for Korean American Studies, UC Riverside. *Research Intern.* Researched primary sources to build list of Koreans present in Riverside around 1900. Assisted with oral histories of prominent Korean American individuals. Augmented and edited statement of historical significance for NRHP application for the Willows Airfield in Glenn County, California, a place of significance to the history of Korean American aviation.

VinCate & Associates Preservation Consultants, Riverside, CA. *Architectural Historian.* Completed successful application for City Landmark status for property in Riverside. Researched and composed statement of significance and architectural description. Completed necessary DPR forms. Liaised with City of Riverside planning staff to guide application to completion.

Appendix B
Timeline

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1760-1850 (Industrial Revolution in England)	Development of poorhouse model of treatment for poor, disabled and elderly					Poor Farm "founded on the basic principles of the poorhouse system developed during the Industrial Revolution in England to provide care to the poor, disabled and elderly. It was not unusual for the dual goals of welfare for the indigent and medical care for the impoverished to overlap." "[The English Poor Law] system was based on the principle that society had a corporate obligation for poor and dependent persons. Virtually every American colony enacted laws that replicated the English system. Under this arrangement local communities, rather than the colony or mother country, had to assume fiscal and supervisory responsibility for those persons incapable of surviving without some form of assistance. Indeed, the very concept of social policy involving the creation of systematic structures to deal with individual and group distress and dependency was largely absent during the colonial era." 335	Sapphos 2011 Grob, Gerald N. "The Severely and Chronically Mentally Ill in America: Retrospect and Prospect." In Sickness and Health in America: Readings in the History of Medicine and Public Health, edited by Judith Walzer Leavitt & Ronald L. Numbers. Madison: University of Wisconsin Press, 1997. Third Edition.
1771	Mission San Gabriel Arcangel founded						
1773	Colony of Virginia opens first mental institution in America, in Williamsburg "for persons of insane and disordered minds."						Sickness and Health in America: Readings in the History of Medicine and Public Health, edited by Judith Walzer Leavitt & Ronald L. Numbers. Madison: University of Wisconsin Press, 1997. Third Edition. 307.
1798	Federal funding to government and private hospitals that served as marine hospitals for the "relief of sick and disabled men."						Sapphos 2011
1781	El Pueblo de la Reina de Los Angeles established						
1784	Spanish land grant given to Jose Manuel Nieto (Rancho Los Nietos)						
Early 1800s	Poor farms or poorhouses first appear in the United States						
1821	Mexico gains independence from Spain						
1823	Worcester State Lunatic Hospital opens in Massachusetts, the first state-run asylum.						Sickness and Health in America: Readings in the History of Medicine and Public Health, edited by Judith Walzer Leavitt & Ronald L. Numbers. Madison: University of Wisconsin Press, 1997. Third Edition. 307.
1833-1834	Secularization of mission system						
1834	Rancho Santa Gertrudes (awarded to Antonio Maria Nieto upon Jose's death) confirmed upon Antonio's widow						
1843	Lemuel Carpenter purchases Rancho Santa Gertrudes						
1846-1848	Mexican-American War						
1848	Signing of Treaty of Guadalupe Hidalgo Mexico cedes Alta California to United States						
1848	California Gold Rush begins						
1850-1890	U.S. Census includes "paupers" as a category						https://books.google.com/books?id=R7WxAAAAIAAJ&pg=PA1&lpg=PA1&dq=pauper+in+almshouses&source=bl&ots=VvoOD6-Oy4&sig=qGwUmfRbiXYlFTo-EDdIFvpmh3Q&hl=en&sa=X&ved=0ahUKEwjW1ezHlpvVAhXCvhQKHQBTBxgQ6AEINDAC#v=onepage&q=pauper%20in%20almshouses&f=false
1850	California admitted to the Union as 31st state County of Los Angeles formed						
1850	California legislature enacts requirement that county governments should, "perform all acts necessary to the county welfare."						

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1851	California establishes short-lived state accident hospital near gold-mining areas of Stockton and Sacramento.						Sapphos 2011
1851	California Insane Asylum opens at Stockton (State Historical Landmark #1016). Closes in 1995. It had an associated farm.					It was constructed as the Insane Asylum of California at Stockton in 1851. It was on 100 acres of land donated by Captain Charles Maria Weber. The legislature at the time felt that existing hospitals were incapable of caring for the large numbers of people who suffered from mental and emotional conditions as a result of the California Gold Rush, and authorized the creation of the first public mental health hospital in California. The hospital is #1016 on the Office of Historic Preservation's California Historical Landmark list, and today is home to California State University's Stanislaus - Stockton Center. A cemetery for patients who died there is located on the property.	http://www.sanjoaquinhistory.org/documents/HistorianOS12-3.pdf
1852	Los Angeles County Board of Supervisors created						
1854	President Franklin Pierce vetoes "Bill for the Benefit of the Indigent Insane" a.k.a. "Land-Grant Bill for Indigent Insane Persons"					Set 70+ year precedent of state and local (as opposed to federal) involvement/control of aid to poor, mentally ill, and blind, deaf and mute persons.	https://en.wikipedia.org/wiki/Bill_for_the_Benefit_of_the_Indigent_Insane
1855	Jose Ramirez purchases portion of Rancho Santa Gertrudes						
1855	Care of the aged and needy formally becomes local responsibility with California "Poor Law of 1855"						
1858	First L.A. County public hospital opens in house of resident Cristobal Aguilar (future mayor of L.A.)					Abel Stearns and John Downey appointed by County to head effort to found hospital. Operated by the Sisters of Charity and overseen by County physicians. Consisted of two wards, one for paying patients, other for charity patients.	Sapphos 2011
1859	John Gately Downey and James P. McFarland purchase remainder of Rancho Santa Gertrudes						
1860	By this year most states have established hospitals to care for the mentally ill.					Thanks in large part to reformers like Dorothy Dix.	Sickness and Health in America: Readings in the History of Medicine and Public Health, edited by Judith Walzer Leavitt & Ronald L. Numbers. Madison: University of Wisconsin Press, 1997. Third Edition. 307.
1860	State passes law requiring county hospitals to care for all indigent persons, of any health or income level.						Sapphos 2011
c. 1860s	County hospital relocated to larger, nine-acre lot. Consisted of building and landscaping of orange groves, pepper and walnut trees.						Fliedner (1990): 11
1860	Downey becomes Governor of California (1860-1862)						
1862-1865	The "Great Drought"					"California has had worse droughts in terms of rainfall, Roos said. But in terms of economic loss, the so-called Great Drought was probably most devastating because the early ranchos lacked today's reservoir water storage." (2.)	1. http://articles.latimes.com/1991-06-13/news/nc-780_1_cattle-industry 2. http://articles.latimes.com/1991-05-06/local/me-1024_1_three-year-drought
1865-c.1880s	Downey's portion of Rancho Santa Gertrudes subdivided						Larry Latimer, *The History of Downey, California* (2010)
1866	Similar property type: San Francisco Almshouse (now the Laguna Honda Hospital and Rehabilitation Center)					"Laguna Honda opened in 1866 to care for one of the first generations of San Franciscans, the Gold Rush pioneers. Many people who had come west seeking their fortunes in the gold and silver mines of Northern California went bust	http://lagunahonda.org/OurHistory https://californiapreservation.org/laguna-honda/

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
	Very similar to RLA					instead. The burgeoning city responded to its growing numbers of people in need by constructing a four story wood frame building to house indigent San Franciscans on the old San Miguel Rancho west of Twin Peaks. The rancho had been the property of José de Noe, the last alcalde, or mayor, of San Francisco in the days when the city was still part of Mexico. It was a good place for people to grow their own food and tend animals. Nearby, on the sloping land behind Twin Peaks, a natural spring fed a deep lagoon, a *laguna honda*. The building was known as the Almshouse, which until the 20th century was a common term for a place of refuge housing people who were chronically ill or impoverished with nowhere else to go. Like many such places, the Almshouse grew its own food and livestock on 87 acres of farmland. By 1870 the farm not only fed an Almshouse population of over 500 men, women and children, but produced a surplus harvest as well, enough to cart into town, three miles to the northeast, to sell at market. There were scant amenities for the people of the Almshouse. They made their own clothes and their own shoes. But in 1872 the administrator reported to city officials that "together with the food, clothing and general cleanliness of the place [it] is equal, if not superior, to any of the same nature either in the U.S. or Europe." The first medical services were provided in 1868 when the city opened a 24-bed hospital during a smallpox epidemic. After the epidemic abated in 1870, the hospital closed and was replaced by a small asylum. Like many such institutions throughout the country, the Almshouse was a refuge for a wide variety of people who lived at the margins of society. As the century ended, new buildings went up on the Almshouse grounds to serve an increasingly diverse population. In 1890, the administrator reported that Almshouse residents represented some forty different nationalities. The defining event of the early part of the new century was the great earthquake and fire of 1906. The Almshouse was pressed into service to house and care for thousands of displaced San Franciscans. Now known as the Relief Home, it consolidated earthquake victims living in refugee camps scattered across the city. A new pavilion-style building was constructed, able to accommodate 1,000 people. The building was dedicated in 1909 by President Theodore Roosevelt. By 1910, the city had added another stately new building to the Relief Home. Known as Clarendon Hall, it housed 250 people, and for the first time was intended specifically for people who needed long term medical care. Clarendon Hall was demolished in 2008 to make room for today's Laguna Honda, a facility able to withstand an earthquake many times more powerful than the one that caused Clarendon to be built. The leap from Relief Home to skilled nursing facility began in earnest in the 1920's when Mayor James "Sunny Jim" Rolph turned over the first spade of earth for the Spanish Revival-style buildings that would become Laguna Honda Hospital and Rehabilitation Center. Those buildings, whose Mediterranean tile work is echoed in the architecture of today's Laguna Honda, were opened in 1926 and continued to grow in the decades that followed	

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
						with the addition of new “finger wings,” the long, Florence Nightingale-style open wards that were customary at the time. In the 1930s, Laguna Honda became a teaching center for the University of California medical school. Surgery began to be performed, and cardiograph and x-ray technology was introduced. The entryway to the main building was graced with now-classic WPA murals, which are still on display. After the war, Laguna Honda was the site of a cancer research program funded by the National Cancer Institute and the University of California. Occupational therapy was introduced with a technical arts program in weaving and basketry. A large room fitted with looms became known as the “rug room,” named for the acclaimed products of the resident weavers. The program grew into a fully fledged department of occupational therapy in 1953. In 1957, local businessman Gerald Simon founded the Laguna Honda Volunteers, Inc., a philanthropic organization that to this day funds amenities for Laguna Honda residents such as personal items, assistive devices, books, music, outings, and celebrations. In the 1960s and 1970s, the Gerald Simon theatre at Laguna Honda was a venue for performers like Bing Crosby, Merv Griffin, Eddie Fisher, Phil Harris, Donald O’Connor and Frankie Lane. Laguna Honda became accredited as a hospital in 1963 as it continued to redefine itself in ways that would allow it to meet the needs of its diverse service population. The 1920s-era buildings underwent a major renovation in the mid-70s. Today, Laguna Honda is a hospital specializing in skilled nursing and rehabilitation. It serves people who have an extraordinary variety of clinical and social needs, and who come from a wealth of cultural backgrounds. The new Laguna Honda is a community of care where practitioners and residents alike are creating possibilities for well-being in a new century.”	
c.1865	Andrew W. Ryan purchases XXXX acres of farmland, where he raises corn and hogs						https://archive.org/stream/historyofcalifor02guin#page/n595/mode/2up/search/ryan
1870-1900	California population grew from 560,247 to 1,485,053						Kevin Starr, *Inventing the Dream: California Through the Progressive Era* (New York: Oxford University Press, 200).
1872	Napa State Hospital opens in 1872					“In 1872, a site was selected and work began for the erection of the 500-bed, four- story, Gothic Hospital building. The Hospital originated in response to overcrowding at Stockton Asylum, the first State Hospital. Napa State Hospital opened on Monday November 15, 1875 and is the oldest State Hospital still in operation. The Hospital was once self-sufficient, with its own dairy and poultry ranches, vegetable gardens, orchards and other farming operations. Treatment programs for developmentally disabled residents were present from October 1968 to August 1987and from October 1995 to March 2001. The Hospital does not accept voluntary admissions.”	http://www.dsh.ca.gov/Napa/default.aspx
1872	The Southern Pacific railroad’s publicity agent Jerome Madden hires New York journalist Charles Nordhoff who publishes *California for Health, Wealth, and Residence* this year					“…it single-handedly stimulated significant migration from the East and from Europe.”	Kevin Starr, *Inventing the Dream: California Through the Progressive Era* (New York: Oxford University Press, 26).
1873	Town of Downey established						

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1876	Southern Pacific Railroad completes transcontinental line to San Francisco and south to Los Angeles					"The railroads brought new varieties of Americans to the Southland: the homesteader, the urban immigrant, the health seeker, the tourist."	Kevin Starr, *Inventing the Dream: California Through the Progressive Era* (New York: Oxford University Press, 40-4).
1876	Similar property type: San Mateo County Poor Farm established					"After Dr. W. H. Kellogg, director of the California State Department of Health, sent a scathing report in 1918 to the San Mateo County Board of Supervisors, they decided it was time to replace the original San Mateo County Community Hospital and Poor Farm. The hospital and farm on Polhemus Road had been established in 1876 (The site is now occupied by the Crystal Springs Rehabilitation Center). The main building of the poor farm was a fire trap, Dr. Kellogg reported. Lighting was inadequate, the building was badly ventilated and the four wards were overcrowded. Toilets were flushable, but there was no water, he continued, as the wells had run dry. The nurse dispensed medicine at her own discretion, clinical records were not taken of the patients and there were no regular visits by the county physician — and the place smelled bad." "The first hospital -- public or private -- erected in San Mateo County was called Poor Farm. Located in a valley south east of the Crystal Spring Reservoir, Poor Farm first occupied the site of the county's Tower Road facilities in the 1870's. Providing medical care for the indigent, major health concerns faced by the 19th century facility included malaria and consumption, later known as tuberculosis. During the 1906 earthquake, many victims of bubonic plague came to Poor Farm for treatment. The facility also led the Peninsula's fight against influenza in 1918, tending to patients and distributing face masks to prevent the spread of the disease. Poor Farm became Crystal Springs Rehabilitation Center in the 1920's, offering long term care to elderly patients, including those so destitute as to afford no other means of care."	http://www.everythingsouthcity.com/the-hidden-history-of-the-san-mateo-county-poor-farm/ http://archives.smdailyjournal.com/article_preview.php?id=98696 http://archives.smdailyjournal.com/article_preview.php?id=361
1878	L.A. County opens County Hospital and Farm near downtown L.A.						
1878-1887	Need for Poor Farm becomes apparent due to overcrowding at County Hospital and its adjacent Farm						
1880-1890	Number of nurses in U.S. grows to 120,000 from 15,600						Christopher M. Nichols & Nancy C. Unger, *A Companion to the Gilded Age & Progressive Era*
1879	Similar property type: Mono County Hospital established in Bodie. Moved a few miles away in 1880s and became the Poor Farm, which only lasted a few years.						http://noehill.com/mono/poi_poor_farm.asp
1880	Similar property type: San Diego County establishes County Hospital						http://www.sandiegohistory.org/journal/2002/october/1889/
1880	Similar property type: Marin County establishes Poor Farm, Hospital and Cemetery						http://smcgs.blogspot.com/2016/03/san-mateo-county-poor-farm.html https://patch.com/california/sanrafael/history-poor-farm-took-in-marins-homeless
1880	Population of Los Angeles reaches 11,000						
1885	Atchison, Topeka and Santa Fe railroad arrives in Los Angeles from the east					"The railroads brought new varieties of Americans to the Southland: the homesteader, the urban immigrant, the health seeker, the tourist."	Kevin Starr, *Inventing the Dream: California Through the Progressive Era* (New York: Oxford University Press, 40

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1887	Physicians Walter Lindley and J.P. Widney publish promotional book *California of the South*					"In Southern California from the mid-1880s onward the health factor contributed to possibilities of self-contemplating discontent. Promotional books… helped to create a myth of healthfulness and longevity which, like that of easy riches during the Gold Rush, was bound to prove disappointing… Southern California filled up with the dying and the sick who, fleeing death, were yet uncertain of the outcome. At one time it seemed as if the region would become one vast sanitarium."	Starr, Kevin. *Americans and the California Dream, 1850-1915*. New York: Oxford University Press, 1913. 443
1887	Santa Fe Railroad completes transcontinental line to Los Angeles						
1880s	Real-estate and population boom of the '80s thanks to railroads..					"In 1887 the Southern Pacific transported 120,000 people to Los Angeles, while the Santa Fe brought three and four passenger trains a day into the city."	Carey McWilliams, *Southern California Country: An Island on the Land* (New YorkL American Book-Stratford Press, 1946), 118.
1887	Ryan sells 124.4 acres to County for $12,440 ($100/acre)					"The Supervisors bought 112 acres from the same person, Andy Ryan, paying $100 per acre; houses were built and the land developed, and later more land was bought, and this was the first County Farm. Mr. Ryan is the same interesting character referred to by the pioneer, Harris Newmark, when he says in his "Sixty Years in Southern California: 1853-1913": "Andrew W. Ryan, a Kilkenny Irishman commonly called Andy, after footing it from Virginia City to Visalia, reached Los Angeles on horseback and found employment with Phineas Banning as one of his drivers. From 1876 to 1879, he was county assessor, later associating himself with the Los Angeles Water Company, until, in 1902, the city came into control of the system." Ryan was also justice of the peace, County Assessor (1875-1877), LA City Councilman (1877-?), employee of the LA City Water Co. (1884-?), and VP of State Bank and Trust Company (c. 1906)	Price taken from Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140. Blurb from: https://archive.org/stream/historyofpomonav00hist/historyofpomonav00hist_djvu.txt https://archive.org/stream/historyofcalifor02guin#page/n595/mode/2up/search/ryan
1887/1888	Los Angeles County Poor Farm established						
c.1887-1915	RLA sees 9 superintendents come and go, with an average tenure of 2 years. Many of them are political appointees.						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 141.
1888	Original plan cost $35,000. Original barn 30x60 feet. Artesian well sunk 250 feet with a windmill to bring water to buildings. Two brick 74x46 feet, two-story buildings built. One story 46-square feet building built.					27 extra acres from the County Hospital property sold for town lots in order to pay for the $35,000. Sold as a cheap way to take care of the poor.	*Los Angeles Daily Herald*, 28 August 1888 https://cdnc.ucr.edu/cgi-bin/cdnc?a=d&d=LAH18880829.2.34
1888	Southern Pacific Railroad constructs depot in Downey						
1888	Contract for design of campus awarded to Kysor, Morgan, and Walls						
1888	Jacob Friedlander awarded contract for Refectory						
1888	Original Administration Building, North						

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
	Ward, and South Ward opened						
1888	Aviary (#1312)					Moved sometime after 1924 to its present site within the courtyard of the Men's Psychiatric Wards	
Nov.-Dec. 1888	First "inmates" (patients) arrive						
1889	Office Building designed by Kysor, Morgan, and Walls						
1889	Edwin L. Burdick appointed Superintendent and Resident Physician						
1889	First telephone system installed						
1889	Jane Addams' establishes Hull House in Chicago					Settlement house movement: Largely women-led effort to house often-immigrant urban poor & conduct research establishing incontrovertible link between poverty and public health	Christopher M. Nichols & Nancy C. Unger, A Companion to the Gilded Age & Progressive Era
Late 1800s	Dispensaries (similar to clinics) operating in association with settlement houses, med schools, hospitals.					Poor people would consult with doctor or nurse & receive medicine, sometimes at a discount. Example: The dispensary operating in conjunction with Cooper Med School of San Francisco supported 7 clinics (eye & ear; medical; surgical; neurological; gynecological; genitourinary; & children) & served over 13,300 patients in 1893 alone. Med students practiced there.	Christopher M. Nichols & Nancy C. Unger, A Companion to the Gilded Age & Progressive Era
1890	Population of Los Angeles increases to 60,000						
Jan. 1890	76 patients						
1891-1892	Floods damage crops						
Jan. 1893	Patient population is 126						
1892	Dr. P.C. Remondino writes the promotional book *The Mediterranean Shores of America*.					"'Here disease and death may be kept at bay,' Doctor P.C. Remondino wrote in the preface to *The Mediterranean Shores of America* (1892), 'and life enjoyed to the end of the term of man's natural existence.'" "In Southern California from the mid-1880s onward the health factor contributed to possibilities of self-contemplating discontent. Promotional books… helped to create a myth of healthfulness and longevity which, like that of easy riches during the Gold Rush, was bound to prove disappointing… Southern California filled up with the dying and the sick who, fleeing death, were yet uncertain of the outcome. At one time it seemed as if the region would become one vast sanitarium."	Starr, Kevin. *Americans and the California Dream, 1850-1915*. New York: Oxford University Press, 1913. 443
1893	Southern California State Asylum for the Insane and Inebriates opens in San Bernardino (renamed Patton State Hospital in 1927)					"The Department of State Hospitals-Patton is a forensic psychiatric hospital located in Patton, CA, in San Bernardino County. DSH-Patton was established in 1890 and opened in 1893. DSH-Patton provides treatment to forensically and civilly committed patients within a secure treatment area. The hospital does not accept voluntary admissions."	https://www.kcet.org/history-society/the-insane-asylum-the-first-twenty-years-of-patton-state-hospital
1893	First dairy barn constructed						
1893	Panic of 1893 and economic depression until 1897						
1894	State aid to the aged cut						
1895	Refectory enlarged						
1896	RLA expansion: 73 acres from Andrew Glassell and Laura B. Smith for $4,250						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1898	Orange groves cover 32 acres						
1897	New Women's Ward constructed (demolished 1965)						
c. 1900	Riverside County Hospital and Poor Farm					"In the early 1900s a new all-wood hospital was built at the	https://en.wikipedia.org/wiki/Riverside_County_Regional_Medical_Center

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
	built in Riverside.					corner of Magnolia Avenue and Harrison Street in Riverside. Over the next few years, several smaller buildings were added to the hospital campus. A nurse training school was added in 1908. Hospital physicians and the head nurse worked as instructors, at no additional cost to the hospital."	
c. 1900	Moreton Bay fig tree planted						
1900	RLA expansion: 108 acres from William Bedome for $7,500						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1900	Nearly every major American city had a settlement house						Christopher M. Nichols & Nancy C. Unger, A Companion to the Gilded Age & Progressive Era
1901	Thomas F. Simpson appointed Superintendent Dr. Norton becomes Resident Physician						
1903	Newspapers report overcrowding and poor conditions at Poor Farm						
1903	George S. Clarke appointed Superintendent Marshall E. Price becomes Resident Physician						
1904	U.S. Census Bureau conducts special census for paupers in almshouses.					Report released in 1906. "California: The board of supervisors of each county has the duty to construct or lease, officer, and maintain hospitals and almshouses, or, at their discretion, to provide otherwise for the indigent sick or dependent poor of the county: and for such purposes may levy the necessary tax. The board of supervisors appoints the superintendents and the necessary medical officers of such hospitals and almshouses. The board may let out the care or attendance of the sick and poor by contract to the lowest bidder. The board has authority to provide a farm in connection with the county hospital or poorhouse. It is incumbent upon every county… to relieve at the expense of the county the indigent sick and the poor who cannot otherwise be provided for. But if such person has not resided in the county or city for three months immediately preceding the application for aid, then the expense shall be borne by the county in which such person has a lawful residence. It is the duty of the superintendent of any county hospital or almshouse to inquire into the ability of persons admitted and of their kindred to bear the cost of maintaining them in hospitals. If a person who is a public charge becomes possessed of property at any time the cost of his support may be recovered through process of law. Kindred in the degree of husband, wide, child, parents, grandparents, grandchildren, brothers, or sisters are liable for the support of a poor person. It is a misdemeanor to bring any poor or incompetent person into any county… wherein he is not lawfully settled. The state board of charities has authority to investigate and report upon county hospitals and almshouses."	https://books.google.com/books?id=jNO7gH2ZVFQC&pg=PR3&lpg=PR3&dq=pauper+in+almshouses&source=bl&ots=sep9RZQEku&sig=kRlVko96PzNII9O0cjely20ne5g&hl=en&sa=X&ved=0ahUKEwjW1ezHIpvVAhXCvhQKHQBTBxgQ6AEIOTAD#v=onepage&q=pauper%20in%20almshouses&f=false
1905	New water pump installed						
1906	Progressive reformer Arthur Judson Pillsbury publishes *Institutional Life*, containing a series of nationwide best practices to reform social welfare system in California.					Indicates importance of social welfare efforts for Progressives.	Starr, Kevin. Inventing the Dream: California Through the Progressive Era. New York: Oxford University Press, 1985. 255-256
1907	Similar property type: Fresno Almshouse founded. Name changed to "Old People's					"The board of supervisors of Fresno County took measures for the relief of the needy aged and the general hospital was	http://www.poorhousestory.com/CA_FRESNO_WPA_Inv.htm

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
	Home" in 1915.					made to function as a home for such aged indigents. An almshouse was established in 1907. In 1915 the name of the "almshouse" was changed to that of "Old People's Home," which it bears to this day. Its budget in 1938 was $32,635."	
1907	Insane Ward completed		1907			Designed by Hudson and Munsell	
1907	Chapel built (LACO # 1254)					Moved in the 1920s to its present site.	
1907	Train Station/Depot (LACO #1352) and supply warehouse (#1352) built. Vandalized and burned down in 2001.		1907	2001			
1907	Dairyman's house (LACO #1137) completed.						
1907	Men's Psychiatric Ward (#1205)					Psych wards opened in response to a state law requiring counties to provide care for mild or "harmless" mentally ill patients in order to relieve crowding in state asylums	"County Farm 50 Years Old," L.A. Times, 11/29/1937
1908	Farm grows to 333 acres						
1909	Oil & Storage (#1287)			Destroyed by fire 2017.		Burned to the ground (arson?) on June 26, 2017.	
1909	Original herd of pure-bred Holstein cows bought by County veterinarian, Dr. Rowland.						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 144.
c. 1909-1911	Shop, Laundry, and Ice Plant (#1302)						
1910	RLA expansion: 38 acres from George Holcomb and Thomas Brooks for $9,500						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1910	U.S. Census Bureau conducts special census for paupers in almshouses including statistics on RLA					Report released in 1915. Provides a snapshot of the 1/1/1910 population numbers (and other statistics) of every poorhouse in the country. RLA in 1910: 206 patients total; 181 male, 25 female, 87 white born in U.S., 116 white foreign-born, 3 "colored." 219 admitted in 1910 indicated very high growth. Reveals institutions with the name "poor farm" in other California counties: Inyo, Lassen, Marin, Mendocino, Mono, Riverside, San Mateo, and Sonoma. Nearly every California county had a hospital and/or farm	https://books.google.com/books?id=cETPJ29AjYMC&printsec=frontcover&source=gbs_ge_summary_r&cad=0#v=onepage&q=los%20angeles&f=false
c. 1912-1926	Dining Room, Kitchen, Staff Room (#1262 and #1263)					1913 Dining Room and Kitchen designed by Hudson and Munsell	
1913	General Ward 30 (#1184)						
1913	General Ward 40 (#1185)						
1913	Lock Shop (#1276)						
1913	Water Tower (#1301)						
1914	Orange County Poor Farm					"Orange County Hospital, West Chapman Avenue, Orange, California, ca. 1930. Image shows facade of hospital, with "ORANGE COUNTY FARM" beneath the pediment, view looking west, with several cars parked in front along large lawn in foreground. Designed by architect Frederick H. Eley and constructed in 1914 as the Orange County Poor Farm where residents raised their own vegetables, hogs and chickens and picked fruit from a 23-acre Valencia orange grove. Poor farm was phased out in the Depression as too expensive. Hospital was expanded in 1963, and the name was changed to Orange County Medical Center in 1969. Buildings were sold in 1976 to the University of California, and later became the UCI Medical Center."	http://content.cdlib.org/ark:/13030/kt5g5019k7/?layout=metadata
1915	RLA hit by major spring flood						
1915	Harriman/Superintendent's House built (#1101) shortly before Harriman hired		1915	Damaged by fire 2017.		Associated with William Ruddy Harriman. Damaged by fire (arson?) June 26, 2017.	

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1915	William R. Harriman hired as superintendent						
1915	Position of "Farmer" abolished; responsibilities merged into role of superintendent					"The Board of Supervisors had abolished the position of 'Farmer' at this 540-acre tract so Harriman had the personal responsibility of rehabilitating the farm with some 400 patients also in need of rehabilitation. He had to use the latter to accomplish the former, as the County had provided few paid employees. Nor did the County provide much medical assistance in a patient rehabilitation program. You might say it provided none. There was not even a resident physician at the Farm anymore. Interns would be sent down from the County Hospital to look at patients if they became acutely ill. Nor were there any graduate nurses, psychiatrists, dentists, pharmacists; although these might be called in from time to time. There was no physiotherapy or hydrotherapy."	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 142.
1916	Metropolitan State Hospital in Norwalk (adjacent to Downey) opens in 1916						http://www.dsh.ca.gov/Metropolitan/Museum.aspx http://maps.assessor.lacounty.gov/GVH_2_2/Index.html?configBase=http://maps.assessor.lacounty.gov/Geocortex/Essentials/REST/sites/PAIS/viewers/PAIS_hv/virtualdirectory/Resources/Config/Default
1916	RLA expansion: 3.7 acres from Howard Skewes for $940						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1916	General Ward 50 (#1186)						
1916	Open Shelter (#1243)					Within courtyard of Men's Psychiatric Wards	
1916	Toilet Room (#1244)					Within courtyard of Men's Psychiatric Wards	
1916	Open Shelter (#1251)					1995 survey estimated construction in 1916, had been partially or completely replaced circa 1960.	
1917	Superintendent's Garage (#1177)						
c.1917-c.1922	Superintendent's Shed (#1178)						
1917	Workshop (#1275)						
1918	RLA expansion: 18 acres from Daniel Lane for $7,220						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1919	Women's Psychiatric Ward (#1203)						
1920-1930	Population of California grows from 3,426,861 to 5,677,251 (60%)						Kevin Starr. *Endangered Dreams: The Great Depression in California* (New York: Oxford Books, 1996), 223.
1920	Garage/Storage (#1286)						
1921	Staff Cottage (#1121)						
1922	Bathhouse and Ward (#1260)					Near the General Wards	
1923	Related property type: San Diego County establishes Poor Farm at Edgemoor (on NRHP). Previous SD County Poor Farm had been attached to County Hospital founded in					"In relation to the proposed project, the Poor Farm era began in 1923, when the County of San Diego purchased Edgemoor Farms for use as a sustainable farm facility which provided care of the aged, indigent, and other disenfranchised members of society, such as orphans and the mentally ill. Edgemoor was one of the last and largest county or municipality-funded poor farms and homes for the aged and indigent in the state and the nation."	http://ohp.parks.ca.gov/ListedResources/Detail/N1360 http://sandiegohealth.org/region/1889_CountyHospital&PoorFarm.pdf http://www.sdcl.org/reusable_components/images/images/dgs/Documents/CEQA_Edgemoor_EIR.pdf
1923	U.S. Census Bureau conducts special census for paupers in almshouses						https://books.google.com/books?id=R7WxAAAAIAAJ&pg=PA1&lpg=PA1&dq=pauper+in+almshouses&source=bl&ots=VvoOD6-Oy4&sig=qGwUmfRbiXYlFTo-EDdIFvpmh3Q&hl=en&sa=X&ved=0ahUKEwjW1ezHlpvVAhXCvhQKHQBTBxgQ6AEINDAC#v=onepage&q=pauper%20in%20almshouses&f=false
1923	Transition from farm to infirmary begins with the admission of bedridden patients.						Fliedner 104
1923	Patient Ward 201 (#1189)					#1189-#1197 linked to neighbors by continuous veranda	
1923	Patient Ward 202 (#1190)					#1189-#1197 linked to neighbors by continuous veranda	
1923	Patient Ward 203 (#1191)					#1189-#1197 linked to neighbors by continuous veranda	

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1923	Patient Ward 204 (#1192)					#1189-#1197 linked to neighbors by continuous veranda	
1924	All cattle destroyed due to outbreak of foot and mouth disease. New program started.						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 144-146.
1924	Men's Psychiatric Ward (#1204)					South eastern portion damaged by fire	
1924	Staff Cottage (#1123)						
1924	Garage and Storage (#1278)						
1925	Work Preparation Center No. 2 (#1207)						
1925	Toilet Building (#1247)					Within the courtyard of Men's Psychiatric Wards	
	Pump House (#1249)					Not actually a house. Rather, an installation of large pipes that run underground and also appear above ground within the courtyard of Men's Psychiatric Wards.	
1925	Toilet Building (#1256)						
1925	Garage (#1277)						
1925	Garage (#1279)						
1925	Power Plant and Smoke Stack (#1300)						
1926	RLA expansion: 64.86 acres from Vincent J. and Della Montellone for $27,295						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1926	Occupational Therapy department established						Sapphos 2011
1926	Women's Psychiatric Ward (#1202)						
1926	Patient Ward 205 (#1193)					#1189-#1197 linked to neighbors by continuous veranda	
1926	Patient Ward 206 (#1194)					#1189-#1197 linked to neighbors by continuous veranda	
1926	Patient Ward 207 (#1195)					#1189-#1197 linked to neighbors by continuous veranda	
1926	Dairyman's Garage (#1179)						
1926	General Ward 60 (#1187)						
1926	Patient Ward 212 (#1200)					Non-extant	
1926	Patient Ward 214 (#1201)					Non-extant	
1926	Greenhouse (#1355)					Non-extant	
1926	Tool House (#1356)						
1926	Garage (#1379 and #2121)						
1927	RLA expansion: 71.6 acres for $214,800						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
1927	New Administration Building officially opened (#1100)					According to Matthew Feldhaus at LA County, this building is the only one to have undergone any improvements since the 1995, 2004, and 2011 reports.	
1927	Kitchen and Dining Building (#1295)						
1928	General Ward 70 (#1188)						
1928	Patient Ward 208 (#1196)					#1189-#1197 linked to neighbors by continuous veranda	
1928	Patient Ward 209 (#1197)					#1189-#1197 linked to neighbors by continuous veranda	
1928	Patient Ward 210 (#1198)					#1198 and #1199 linked to each other by a veranda	
1928	Patient Ward 211 (#1199)					#1198 and #1199 linked to each other by a veranda	
1928	Old West Ward (Refectory and first building conducted in 1888) demolished to make way for the Auditorium						Fliedner (1990: 147)
1928	Auditorium (#1261)						
1928	Amigos Hall (#1266)						
1928	Garage Storage (#1280)						
1929	RLA has 2,000 patients, with an average age of 64 years. 550 were bedridden. The farm employed 450 of them for upkeep.					FY 1928-29, income was $290,848. Contrast with 1913-14, when it was $20,785.	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 143.
1929	Brooder House/Vivarium Annex (#1335)						
1929	Garage (#1379 and #4121)						
1929	Original Administration Building razed. A 51-ft-long fish pond constructed and	Original Admin. Bldg.	1888		1929		Fliedner (1990: 143)

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
	shelter erected in its place.						
		North Ward	1888				
c. 1929	Poor farm contained 540 acres of farmland and buildings, with a property value of $2 million.					"By the end of the 1920s, the Poor Farm comprised an impressive 540 acres of farmland and buildings, with a property value of $2 million dollars. The property produced three annual crop yields, and real estate improvements included one mile of paved roads, an additional one and one-fourth miles of decomposing granite roads, miles of sewer mains connected to the County sanitation system, hundreds of acres of new lawns, gardens, and trees and numerous buildings serving a variety of purposes."	Sapphos 2011
1929	Great Depression begins						
1930	RLA expansion: final expansion, a 23-foot overlap for $350						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 140.
c. 1930-1973	Portions of RLA sold until Rancho in 1973 consisted of 200 acres with a total valuation, including buildings and equipment, of $50,000,000						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 141.
1930	Casa Consuelo (#1238)						
1930	Toilet Building (#1239)					Within courtyard of Women's Psychiatric Wards	
1930	Shelter (#1240)					Within courtyard of Women's Psychiatric Wards	
1930	Toilet Building (#1242)					Within courtyard of Women's Psychiatric Wards	
1930	Transportation Office (#1267)						
1930	Shed (#1272)					No longer extant (concrete slab foundation and paving only)	
1931	Shed (#1333)						
1932	Harriman petitions County to change name of County Poor Farm to Rancho Los Amigos to shed stigma and as "public notice of the evolving medical mission of the facility."						
1932	Linen Room (#1241)					Within courtyard of Women's Psychiatric Wards	
1932	Linen Room/Snack Bar No. 3 (#1245)					Within courtyard of Men's Psychiatric Wards	
1932	Canopy (#1246)					Within courtyard of Men's Psychiatric Wards	
1932	Wheelchair Repair (#1259)						
1932	Bonita Hall (#1264)						
1932	Storage (#1268)						
1932	Garage (#1270)						
1932	Pump House (#1292)						
c. 1933	Shelter (#1265)						
1933	Long Beach Earthquake hits					"General Ward Building #1 was badly cracked and had to be closed. General Ward #2 was also closed. General Ward #3 was cracked but left open. Wards 4, 5, 6, and 7 were damaged but left open. Ward 100 was closed. Ward 105, over the kitchen, was closed. Employees' apartments over the main building were damaged and vacated. Both the kitchen and main dining room were damaged but remained in use. The laundry had to be closed down, as was Bonita Hall."	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 147.
1933							
1933	Alteration of Trunk Storage (#1283): removal of original upper story after LB Earthquake of 1933						
1933	RLA patients number at 3,325						
1934	RLA begins to admit large numbers of professionals due to Great Depression					"By 1934 the administration at Rancho noted the changing character of the indigents. The trend was toward the professional and white collar worker. The records bring out an interesting picture of the times. Before the Depression the	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 146.

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
						majority of indigents had a work background in mining and agriculture. The Depression seemed to hit those engaged in the building trades first. Evidently construction came to a sudden halt. Then the trend rose to hotel and domestic workers. People were not traveling, and chauffeurs and maids were being let go. Then, by 1934, the 'Poor Farm' began to admit large numbers of attorneys, physicians, university professors, musicians, certified public accountants and the like. The upper middle class was now running out of savings."	
1937	Nearly 54% of inmates under 65 years of age; 61% of patients require nursing care (of the 61%, 1150 are in infirmary wards, 550 in psychopathic wards)						
Late 1937	RLA patients number at 3,000					Average age of patients dramatically reduced due to 1933 National Social Security Act, which have people over 65 a monthly allowance of $35. This made more space for chronically ill children, helping RLA transition into a hospital facility.	Sapphos 2011
1938	Landscape Office (#1357)						
1940s	"The humane and progressive policies established by the [RLA] administration now moved into the medical field."					"For over half a century Rancho had built an international reputation in scientific farming and cattle raising circles, but in the 1940s a change began to take place. The humane and progressive policies established by the administration now moved into the medical field. Rancho, of course, was not started as a hospital. The County had one on Mission Road. But when you have the care of several thousand enfeebled old people, you are going to have health problems on your hands. They are going to get sick, and quite often." "As early as 1923, William Harriman induced the Supervisors to build an infirmary on the ranch staffed by resident physicians. This was a first step. Then just about the time of the earthquake Harriman had convinced the Supervisors of the necessity of building a modern hospital for the patients. That ill wing probably blew some good in forcing a reappraisal of the needs at the Farm. Some of the older buildings were condemned. Fifty-five acres of land was purchased north of Imperial Highway on which hospital facilities were built in beautiful Mission style architecture. Plans were projected to eventually care for as many as 5,000 patients." "Rehabilitation of human lives was still the goal. Advances in medical science would now be enlisted in the program. Rancho would not be concerned solely with custodial care. It would take the difficult cases which required long-time treatment and use all the resources at its command to restore the patient to a useful life."	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 147.
1941	Vocational Training 215 (#589)					No longer extant	
1941	Vocational Training 216 (#590)					No longer extant	
1944	First polio patients arrive at RLA from County Hospital for long term polio treatment program						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 148.
1945	Shed (#1464)						
1945	RLA population doubles from 2,500 to 5,579					Facilitated by widespread polio outbreak of 1945	Sapphos 2011
1948	Toilet Room (#2492)						

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
1948	Garbage Can Room (#3348)						
1949	Shed, Men's Gymnasium (#2434)						
1949	Patient Recreation Shed (#2435)						
1949	Classroom Hut/Shed (#2436)						
1949	Metal Shed (#2437)						
1949	Post Office (#2677)						
1949	Number of RLA patients grows to 5,579						
1950	General Ward 40 (#1185) remodeled to accommodate polio patients.						Sapphos 2011
1951	RLA designated a respiratory center for polio patients.						https://en.wikipedia.org/wiki/Rancho_Los_Amigos_National_Rehabilitation_Center
1952	Polio treatment center established at RLA.					"The concept of using Rancho as a hospital for long-term care of patients with chronic diseases which began with the polio epidemic of 1944, was given significant momentum in 1952 when the County of Los Angeles and the National Foundation for Infantile Paralysis (March of Dimes) provided facilities, staff and funds to establish a Respiration and Rehabilitation Center for Poliomyelitis at Rancho Los Amigos Hospital. Within a few years it became the best in the nation."	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 149.
1952	Shelter (#1290)						
1952	Harriman retires from RLA and passes away in 1953						https://www.newspapers.com/image/73896046/ "Private Services to Be Held for William Harriman"
1952	R.J. Thomas becomes administrator of RLA until 1956						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 149.
1953	Dr. Vernon L. Nickel becomes Chief of Surgical Services of the Southern California Center of the National Foundation for Infantile Poliomyelitis					Dr. Vernon L. Nickel "accepted responsibility for [patients at RLA who had paralytic polio when he] became Chief of Surgical Services of the Southern California Center of the National Foundation for Infantile Poliomyelitis."	http://journals.lww.com/jbjsjournal/Citation/1993/10000/VERNON_L_NICKEL,_M_D__1918_1993.22.aspx
1953	Prosthetic Shop (#3390)						
1954	Loading Dock (#3820)						
1954	1,865 people in L.A. County caught polio, most of whom were treated at RLA with iron lungs in the wards						LA Times, 2003: http://articles.latimes.com/2003/dec/07/local/me-then7/2
1955	Intensive Treatment Program established, building off success of polio program					"So, in 1955 an Intensive Treatment Program was established and designed to provide physical rehabilitation to persons disabled by spinal cord injuries or disease, severe arthritis, multiple sclerosis, muscular dystrophy, chronic neurologic disorders, strokes, amputations and some congenital disorders."	Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 149.
1955	Chapel (#3592)						
1955	RLA Dr. Vernon L. Nickel develops the halo vest						https://en.wikipedia.org/wiki/Rancho_Los_Amigos_National_Rehabilitation_Center
1956	Eugene R. Erickson becomes administrator of RLA until at least 1973						Charles Russell Quinn, *The History of Downey, California* (Downey, CA: Elena Quinn, 1973), 149.
1956	City of Downey incorporated						
Late 1950s	Farm, dairy and mental health wards closed.					"In the late 1950s, the farm, dairy and mental health wards closed, but Rancho remained, converted into a modern chronic-disease hospital and, later, a renowned rehabilitation center. Only a few able-bodied patients still lived there; thousands had once marked their days by the steam whistle that signaled meals, quitting time and lights out. Where County Farm cattle once roamed and a dairy once stood, scores of electric golf carts now maneuver through Los Amigos Golf Course."	LA Times, 2003: http://articles.latimes.com/2003/dec/07/local/me-then7/2
1964	Dr. Nickel becomes the Medical Director at						http://journals.lww.com/jbjsjournal/Citation/1993/10000/VERNON_L_NICKEL,_M

Year	Event	Building	Constructed	Altered	Demolished	Notes	Citation
	RLA Medical Center.						_D__1918_1993.22.aspx
1966	200,000 Gallon Tank (#5547)						
1966	Steam Plant (#5548)						
1992	Facilities Management Metal Building (#7704)						

Appendix C

DPR 523D Form (District Record), 2017

State of California ☐ The Resources Agency Primary #19-189330
DEPARTMENT OF PARKS AND RECREATION HRI #

PRIMARY RECORD

Trinomial
NRHP Status Code 2S2
Other Listings
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 97 ***Resource Name or #:** (Assigned by recorder) Rancho Los Amigos Historic District
P1. Other Identifier: Los Angeles County Farm, Rancho Los Amigos Medical Center
***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles County **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate **Date** 1978, 1982 **T** 3S ; **R** 12W ; __ ☐ **of** __ ☐ **of Sec** __ ; S.B. **B.M.**
c. Address 7601 E Imperial Highway City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone __, _____ mE/ _____ mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
See District Record.

***P3b. Resource Attributes:** (List attributes and codes) HP2, HP4, HP9, HP11, HP12, HP13, HP16, HP28, HP33, HP41,
***P4. Resources Present:**
☐ Building ☐ Structure ☐ Object ☐ Site ☒ District ☐ Element of District
☐ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) Primary elevation of Casa Consuelo (women's ward) located near the district's eastern boundary, view to the west, 2017.

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P6. Date Constructed/Age and Source:** ☒ Historic ☐ Prehistoric ☐ Both
1888-1952
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017
***P9. Date Recorded:** June 19-24, 2017
***P10. Survey Type:** (Describe)
Intensive pedestrian
***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report.* Prepared for the County of Los Angeles.

Report currently in preparation

***Attachments:** ☐NONE ☒Location Map ☒Continuation Sheet ☐Building, Structure, and Object Record
☐Archaeological Record ☒District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☒Other (List): sketch map

*Resource Name or # (Assigned by recorder) Rancho Los Amigos Historic District

D1. Historic Name: LA County Poor Farm D2. Common Name: Rancho Los Amigos Medical Center

***D3. Detailed Description** (Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district.): The Rancho Los Amigos Historic District is an institutional district located in Los Angeles County, in the southwest portion of the town of Downey. The district contains 109 buildings, structures, and features. Development in the district is primarily institutional, containing mostly one- and two story patient wards, surrounded by support and administrative facilities. While the property first began operating as a poor farm in 1888, the majority of the buildings that remain on the property were constructed between 1907 and 1932 and were largely designed in the Renaissance Revival style and brick vernacular, although the district also exhibits examples of Craftsman, Neoclassical Revival, Spanish Colonial Revival, and modest utilitarian buildings. Of the 109 buildings, structures, and features, 61 are contributors to the district and 48 are non-contributors due to extensive alterations or construction outside the period of significance. The contributing buildings represent seven different building types including Administration and Staff Buildings, Patient Wards, Dining and Social Facilities, Utilities, Agricultural and Occupational Therapy Facilities, Maintenance and Support Buildings, and Landscape Features. The district occupies flat terrain with streets generally arranged in a grid pattern. Streets within the district include Consuelo Street, Bonita Street, Descanso Street, Esperanza Street, and Flores Street. The streets feature concrete curbs and sidewalks with landscaped parkways and original lampposts. A landscaped traffic circle occupies the intersection of Consuelo Street, and Erickson Avenue. (See Continuation Sheets)

***D4. Boundary Description** (Describe limits of district and attach map showing boundary and district elements.): The district is bounded by Golondrinas Street, Erickson Avenue, and Flores Street to the north, Dahlia Avenue, Consuelo Street, and Bonita Street to the east, Bonita Street, Erickson Avenue, and Aliso Street to the south, and Laurel Street to the west.

***D5. Boundary Justification:** It is recommended that the District's boundary be expanded near the southeast corner to include the entirety of the Site Plan, which was overlooked by previous evaluations. The new District boundary encompasses additional portions of Consuelo Street, Bonita Street, and Dalia Avenue and the associated landscape areas east of the Administration Building (LACO No. 1100). These elements of Rancho Los Amigos' site plan contribute to the District's character and setting and continue to exhibit a high level of integrity from the period of significance. The new District boundary follows the natural contours of the landscape and would contain the contiguous grouping of 61 buildings and features contributing to the district's significant association with healthcare in Los Angeles County during the late 19th and early 20th centuries.

D6. Significance: Theme Public Health; Housing the Poor in California **Area** Los Angeles County
Period of Significance 1888-1952 **Applicable Criteria** National Register Criteria A and C, California Register Criterion 1, and Los Angeles County Criteria 1 and 5
(Discuss district's importance in terms of its historical context as defined by theme, period of significance, and geographic scope. Also address the integrity of the district as a whole.)

The Rancho Los Amigos South Campus was first developed by the County of Los Angeles in 1888. Nearly thirty years earlier, the State of California's legislature enacted requirements that county governments should perform all acts necessary to the county welfare. This decision eventually led to the California "Poor Law of 1855," which made the care of the aged and needy the responsibility of local governments. Los Angeles County's obligation to provide for the poor and its growing indigent population resulted in significant overcrowding of the County Hospital. In 1888, the County opened a poor farm on the subject property, near the outskirts of the newly established town of Downey. Initially, the poor farm housed the elderly or those suffering minor illnesses and physical disabilities, relieving the overcrowded County Hospital. By the late nineteenth century, it had become common place for county governments throughout the country to operate almshouses, poorhouses, or poor farms. The concept of the almshouse, dating back to the early history of the British Colonies, had changed very little up until the late nineteenth century. (See Continuation Sheets.)

***D7. References** (Give full citations including the names and addresses of any informants, where possible.):
(See continuation sheets.)

***D8. Evaluator:** Margarita Jerabek, et al, ESA **Date:** 9/22/2017

Affiliation and Address: ESA, 626 Wilshire Blvd. #1100, Los Angeles, CA 90017

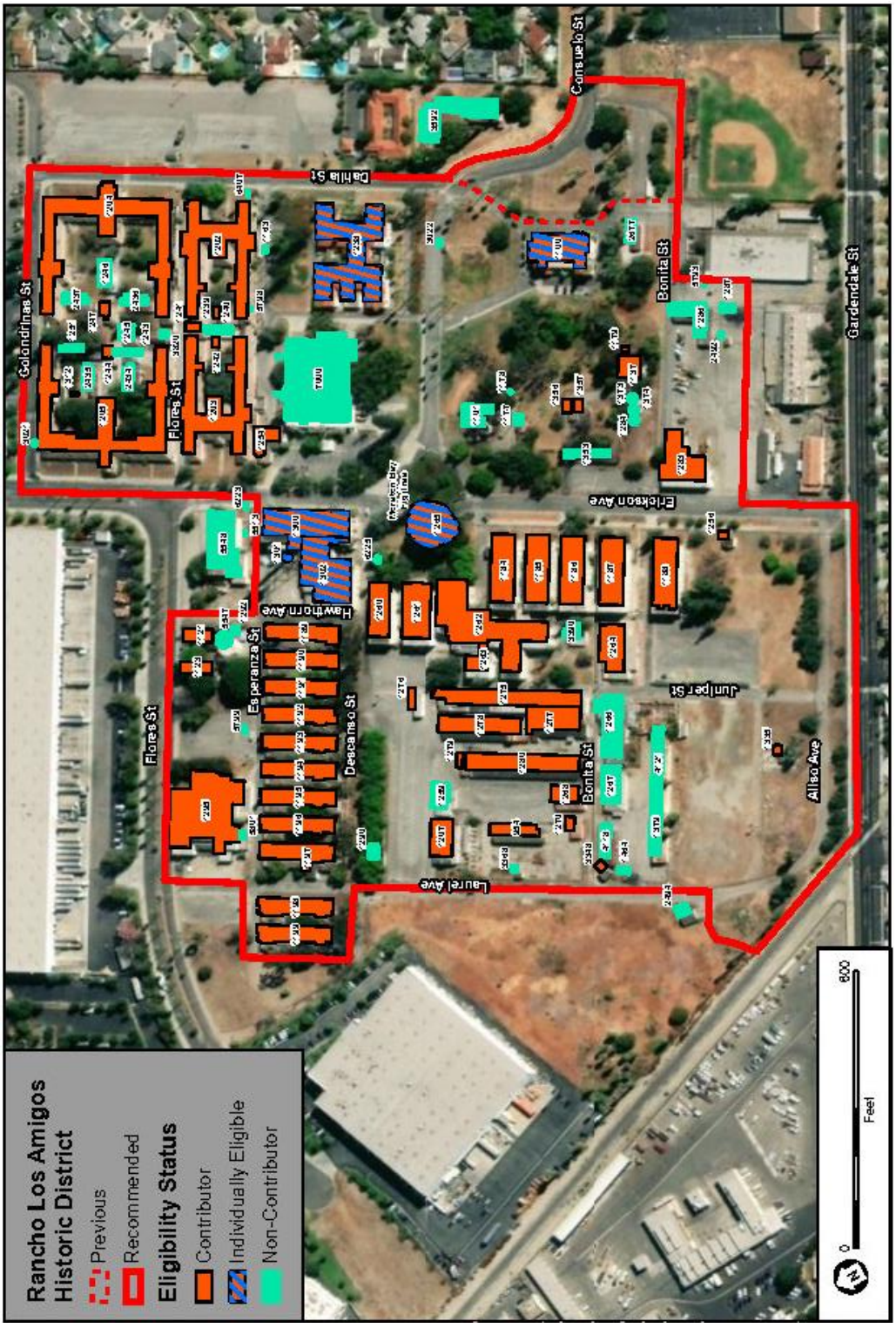
***Map Name:** Rancho Los Amigos Location Map ***Scale:** 1:550 ***Date of map: October 10, 2017**



State of California ♦ Natural Resources Agency Primary # 19-189330
DEPARTMENT OF PARKS AND RECREATION HRI#
SKETCH MAP
Trinomial

Page 4 **of** 97 ***Resource Name or #** (Assigned by recorder) Rancho Los Amigos Historic District

***Drawn by:** ESA ***Date of map:** 2017



***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update

D4. Description Continued:

The South Campus achieved its present appearance during the Development of Rancho Los Amigos Era (1907-1932), which began with the construction of the first patient ward (LACO No. 1205) in 1907 on the east side of Erickson Avenue; this signified the start of the Los Angeles County Poor Farm's transition to a long-term care medical facility. In 1913, in response to growing utility needs, the Water Tower (LACO No. 1301) was erected. It was not until 1925, however, that the current Power Plant was erected (LACO No. 1300).

Three major groupings of patient wards were created on the subject property. Each grouping contained wards featuring identical or very similar designs. The first grouping, comprised of four U-shaped psychiatric wards, was established at the northeast corner of the subject property, beginning with the erection, as mentioned above, of LACO No. 1205 (Men's Psychiatric Ward). LACO No. 1205 originally featured a rectangular plan; in 1909, however, the north and south wings were added, altering its original footprint to a U-shape. In 1916, the north and south wings were further elongated; in the process, each wing received a two-story addition (the second story served to house attendants) and a one-story addition (additional ward space). A cafeteria addition was also made to the center of LACO No. 1205 in 1916. The new U-shape of LACO No. 1205 was replicated three additional times on the subject property. In 1919, LACO No. 1203 (Women's Psychiatric Ward), a smaller U-shaped ward, was erected immediately to the south of LACO No. 1205. In 1924, two additional wards mirroring the plans of LACO Nos. 1205 and 1203 were added, completing the grouping: LACO No. 1204 (Men's Psychiatric Ward) and LACO No. 1204 (Women's Psychiatric Ward).

The second grouping, consisting of five identical two-story general wards, was established on the west side of Erickson Avenue, just north of its southern terminus, beginning with the construction of LACO Nos. 1184 and 1185 in 1913. LACO No. 1186 (built in 1916), LACO No. 1187 (built in 1926), and LACO No. 1188 (built in 1928) were subsequently added to the south, completing the row of wards.

Finally, the third grouping, comprised of thirteen patient wards designed as cottages, each with a similar design. The grouping is situated on the north side of Descanso Street, at the northwestern corner of the subject property. This grouping included nine patient wards on the east side of Laurel Street, connected by a long verandah along their primary (south) elevations, and four additional patient wards on the west side of Laurel Street, also unified by a verandah fronting their primary (south) elevations. The patient wards were constructed in three phases. The first phase included the construction of LACO Nos. 1189, 1190, 1191, and 1192 in 1923. During the second phase in 1926, LACO Nos. 1193, 1194, and 1195 were built. Finally, in 1928, as part of the third phase, LACO Nos. 1196, 1197, 1198, and 1199 were added. LACO Nos. 1200 and 1201 were also erected during the late 1920s at the end (east side) of the row of patient wards; however, they were demolished between 1994 and 2003 according to aerial photographs.

In response to the growing number of female patients, a women's ward was constructed at an unknown date before 1926, based upon an aerial photograph, directly to the south of LACO No. 1203. This ward was demolished between 1963 and 1974, according to aerial photographs. Another women's ward, LACO No. 1238 (Casa Consuelo), was designed by architect Karl Wilhelm Muck and constructed in 1930 to the south of LACO No. 1202 (Women's Psychiatric Ward).

***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update

In 1907, a single-family residence designed by architect George Low was erected in the area below LACO No. 1205, on the south side of Consuelo Street, for the Superintendent and his family: LACO No. 1101 (Harriman/Superintendent's House). William R. Harriman, who served as Superintendent from 1915 to 1952, took up residence there. During the Development of Rancho Los Amigos Era (1907-1932), the subject property's administrative center shifted to the vicinity of LACO No. 1101, on the south side of Consuelo Street. The demolition of the original Office Building on the subject property, as described earlier, coincided with the construction of a new administration building overlooking Consuelo Street in 1926: LACO No. 1100 (Administration/Safety Police Building).

In 1908, a chapel (LACO No. 1254) designed by architectural firm Hudson & Munsell was constructed on the east side of Erickson Ave, north of LACO No. 1101 and directly to the south of LACO No. 1205. In 1919, LACO No. 1254 was relocated further to the south to make way for LACO No. 1203 (Women's Psychiatric Ward). Following the erection of the chapel, several more social, as well as dining, facilities were constructed on the subject property for patient use. In 1912, just south of the Poor Farm's original core, the Commissary and Receiving Room (LACO No. 1263) was built; the following year, the Dining Room, Kitchen, and Staff Room (LACO No. 1262) designed by architectural firm Hudson & Munsell was attached to it (LACO No. 1263 underwent several additions until 1926 when it attained its current appearance). In 1928, Amigos Hall (LACO No. 1266), designed by architect Karl Wilhelm Muck, was built just north of the original poultry yards. During the same year, the Auditorium (LACO No. 1261), designed by architect Karl Wilhelm Muck, was erected on the site which the original Dining Hall (Refectory) formerly occupied. Finally, in 1932, Bonita Hall (LACO No. 1264), designed by architect Edward C. N. Brett, was added just south of LACO No. 1262.

The subject property's agricultural functions continued through the 1920s, as marked by the construction of the Broder House/Vivarium (LACO No. 1335) in 1929 in the poultry yard established at the southeast corner of the subject property. In 1923, horse stables (LACO No. 1283) designed by architect George Low were erected on the east side of Erickson Avenue, just north of that street's south end. After the Long Beach earthquake of 1933, LACO No. 1283 (Trunk Storage), which was extensively damaged, underwent substantial alteration, with the removal of its second story. In the 1920s, the area to the west of Juniper Street was improved with several buildings and structures associated with occupational therapy. For example, in 1925, the Work Preparation Center (LACO No. 1207) was constructed immediately to the west of LACO No. 1262 (Dining Room, Kitchen, Staff Room).

Whereas William R. Harriman resided near the new administration center along Consuelo Street, staff were quartered at the northwest corner of the subject property. By 1926, according to an aerial photograph, several staff cottages occupied this area. One staff housing block was situated in the area presently bound by Erickson Avenue to the east, Hawthorne Avenue to the west, and Descanso Street to the south. This block was improved with fifteen staff cottages (three duplexes and twelve single-family dwellings) set behind landscaped front yards and arranged in two rows; eight overlooked Erickson Avenue while seven fronted Hawthorne Avenue. A second staff housing block sat directly to the west of the aforementioned block, occupying the area at the southeast corner of Hawthorne Avenue and Flores Street. This second block consisted of four staff cottages designed by Parker Orasmus Wright, Jr., each containing four staff living units. In 1927, the Kitchen and Dining Building (LACO No. 1295), intended for staff, was constructed to the

east of the second staff housing block. Of all the staff cottages, only two remain on the subject property: LACO Nos. 1121 (built in 1921) and 1123 (built in 1924). The other staff cottages were gradually demolished after 1963, according to aerial photographs.

Under the direction of Harriman, the Los Angeles County Poor Farm changed its name to Rancho Los Amigos in 1932. During the 1920s, Erickson Avenue became the primary entry to the South Campus due to its connection with Imperial Highway to the north, a major east-west transportation corridor in the surrounding area.

By 1933, Rancho Los Amigos had completed its transition from a poor farm to a long-term care medical facility under the continued direction of William R. Harriman, and was fully developed. There was very little site development between 1933 and 1952, with only a few buildings erected during this time, including the Lumber Shed (LACO No. 954), Landscape Office (LACO No. 1357), and Post Office (LACO No. 2677).

CONTRIBUTING BUILDINGS AND FEATURES

LACO No.	Building Name	P-Number	Date of Construction
LACO No. 954	Lumber Shed	19-189332	1942
LACO No. 1100	Administration/Safety Police Building	19-189333	1926
LACO No. 1121	Staff Cottage	19-189335	1921
LACO No. 1123	Staff Cottage	19-189336	1924
LACO No. 1137	Dairyman's House	19-189337	1907
LACO No. 1179	Dairyman's Garage	19-189340	1926
LACO No. 1184	General Ward 30	19-189341	1913
LACO No. 1185	General Ward 40	19-189342	1913
LACO No. 1186	General Ward 50	19-189343	1916
LACO No. 1187	General Ward 60	19-189344	1926
LACO No. 1188	General Ward 70	19-189345	1928
LACO No. 1189	Patient Ward 201	19-189346	1923

LACO No. 1190	Patient Ward 202	19-189347	1923
LACO No. 1191	Patient Ward 203	19-189348	1923
LACO No. 1192	Patient Ward 204	19-189349	1923
LACO No. 1193	Patient Ward 205	19-189350	1926
LACO No. 1194	Patient Ward 206	19-189351	1926
LACO No. 1195	Patient Ward 207	19-189352	1926
LACO No. 1196	Patient Ward 208	19-189353	1928
LACO No. 1197	Patient Ward 209	19-189354	1928
LACO No. 1198	Patient Ward 210	19-189355	1928
LACO No. 1199	Patient Ward 211	19-189356	1928
LACO No. 1202	Women's Psychiatric Ward	19-189359	1924
LACO No. 1203	Women's Psychiatric Ward	19-189359	1919
LACO No. 1204	Men's Psychiatric Ward	19-189360	1924
LACO No. 1205	Men's Psychiatric Ward	19-189360	1907
LACO No. 1207	Work Preparation Center	19-189361	1925*
LACO No. 1238	Casa Consuelo	19-189362	1930
LACO No. 1239	Toilet Building	19-189363	1930
LACO No. 1241	Linen Room	19-189365	1932
LACO No. 1242	Toilet Building	19-189366	1920
LACO No. 1244	Toilet Room	19-189368	1916
LACO No. 1247	Toilet Building	19-189371	1925
LACO No. 1254	Chapel/Computer Center	19-189374	1908

LACO No. 1256	Toilet Building	19-189375	1925
LACO No. 1260	Bathhouse and Ward	19-189377	1922
LACO No. 1261	Auditorium	19-189378	1928
LACO No. 1262	Dining Room, Kitchen, Staff Room	19-189379	1913-1926
LACO No. 1263	Commissary and Receiving Room	19-189379	1912
LACO No. 1264	Bonita Hall	19-189380	1932
LACO No. 1265	Shelter	19-189381	c. 1933*
LACO No. 1268	Storage	19-189382	1932
LACO No. 1270	Garage	19-189383	1932
LACO No. 1275	Workshop	19-189385	1917
LACO No. 1276	Lock Shop	19-189386	1913
LACO No. 1277	Garage	19-189387	1925*
LACO No. 1278	Garage and Storage	19-189388	1924
LACO No. 1279	Garage	19-189389	1925*
LACO No. 1280	Garage/Storage	19-189390	1928
LACO No. 1283	Trunk Storage	19-189391	1923
LACO No. 1295	Kitchen and Dining Building	19-189394	1927
LACO No. 1300	Power Plant	19-189395	1925
LACO No. 1301	Water Tower	19-189396	1913
LACO No. 1302	Shop, Laundry, Ice Plant	19-189395	1909-1911
LACO No. 1312	Aviary	19-189397	1888 (Relocated c. 1924)

LACO No. 1335	Brooder House/Vivarium Annex	19-189400	1929
LACO No. 1356	Tool House	19-189402	1926
LACO No. 1357	Landscape Office	19-189403	1938
LACO No. 3348	Garbage Can Room	-	1951
None	Moreton Bay Fig Tree	-	c. 1900*
None	Site Plan	-	1888++

Notes: *Date of construction is unclear

NON-CONTRIBUTING BUILDINGS AND FEATURES

LACO No.	Building Name	P-Number	Date of Construction
LACO No. 1101	Harriman/ Superintendent's House	19-189334	1915
LACO No. 1177	Superintendent's Garage	19-189338	1917
LACO No. 1163	Generator House	-	Unknown
LACO No. 1178	Superintendent's Shed	19-189339	c.1917-1922
LACO No. 1240	Shelter	19-189364	1930*
LACO No. 1243	Open Shelter	19-189367	1916*
LACO No. 1245	Linen Room/Snack Bar No. 3	19-189369	1932
LACO No. 1246	Canopy	19-189370	1930*
LACO No. 1251	Open Shelter	19-189373	1916*
LACO No. 1259	Wheel Chair Repair	19-189376	1932
LACO No. 1266	Amigos Hall	-	1928
LACO No. 1267	Transportation Office	-	1930
LACO No. 1284	Grain Tank	-	Unknown

LACO No. 1286	Garage/Storage	19-189392	1920
LACO No. 1287	Oil and Storage	19-189393	1909
LACO No. 1290	Shelter	-	1952*
LACO No. 1292	Pump House	-	1932
LACO No. 1353	Greenhouse	-	Unknown*
LACO No. 1373	Grain Tank	-	Unknown
LACO No. 1374	Grain Tank	-	Unknown
LACO No. 1379	Garage	19-189404	Post 1952*
LACO No. 1464	Shed	-	1945*
LACO No. 2434	Shed/Men's Gymnasium	-	1949*
LACO No. 2435	Patient Recreation Shed	-	1949
LACO No. 2436	Classroom Hut/Shed	-	1949
LACO No. 2437	Metal Shed	-	1949
LACO No. 2492	Toilet Room	-	1948
LACO No. 2494	Shed	-	Unknown*
LACO No. 2677	Post Office	-	1949
LACO No. 3021	Bus Stop	-	Unknown
LACO No. 3022	Bus Stop	-	Unknown
LACO No. 3368	Shed	-	Unknown
LACO No. 3390	Prosthetic Shop	-	1953
LACO No. 3592	Chapel	-	1953
LACO No. 3820	Loading Dock	-	1954

LACO No. 4118	Garage	19-189405	Post 1965
LACO No. 4121	Garage	19-189404	Post 1952*
LACO No. 5513	Electrical Station 18	-	Unknown
LACO No. 5547	200,000 Gallon Tank	-	1966
LACO No. 5548	Steam Plant	-	1966
LACO No. 5793	Electrical Distribution Panel	-	Unknown
LACO No. 5798	Electrical Station 16	-	Unknown
LACO No. 5799	Electrical Station 4C	-	Unknown
LACO No. 5801	Generator House	-	Unknown
LACO No. 6223	Electrical Station	-	Unknown
LACO No. 6225	Electrical Station	-	Unknown
LACO No. 6407	Unknown	-	Unknown
LACO No. 7000	Butler Building	-	Unknown

Notes: *Date of construction is unclear

D6. Significance Continued:

When the Los Angeles County Poor Farm opened, advancements in medicine and new laws governing the treatment of the sick and old aged, were beginning to result in significant changes to almshouses throughout the country. Development on the South Campus from its inception in 1888 as a poor farm to the subdivision of its former agricultural fields in the 1950s, reflects the changing attitude toward healthcare in Los Angeles County as well as the evolving medical trends in the United States and State of California. Initially, labor on the poor farm was intended to expose inmates (patients) to the medicinal qualities of California's mild climate. Produce from the agricultural programs was used to feed the inmate population, giving the poor farm the add added benefit of self-sustainability. Overtime, the agricultural fields were replaced with new patient wards, administration buildings, utilities, and maintenance buildings, while healing work in the fields was replaced by occupational therapy programs in workshops.

The history of the Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect the broader trends in

medical history across the United States. Furthermore, the property's development over time illustrates the changing approaches healthcare and treatment of the indigent population in Los Angeles County. The South Campus of Rancho Los Amigos appears have a significant association with the broad patterns of our history and appears eligible as a historic district under the National Register Criterion A, California Register Criterion 1 and Los Angeles County Criterion 1.

National Register Bulletin 15, How to Apply the National Register Criteria for Evaluation, identifies historic districts under Criterion C as "a significant and distinguishable entity whose components may lack individual distinction." The South Campus appears to be a significant entity (as previously discussed under Criteria A/1) with multiple components, many of which lack individual distinction. Therefore, the South Campus of Rancho Los Amigos does appear significant as historic district under National Register Criterion C.

In addition to being eligible under Los Angeles County Criterion 1, the District is eligible under Los Angeles County Criterion 5, which recognizes historic resources that have been formally listed or found eligible for listing on the National Register and/or California Register. The Rancho Los Amigos Historic District was formally listed on the California Register by the Keeper and determined eligible for the National Register following the initial survey completed in 1995 by Historic Resources Group (HRG).

The National Register and California Register recognizes a property's integrity through seven aspects or qualities: location, design, setting, materials, workmanship, feeling, and association. Eligible properties should retain several, if not most, of these aspects. Both registers require that a resource retain sufficient integrity to convey its significance, and the property must retain the essential physical features that enable it to convey its historical identity. The South Campus of Rancho Los Amigos was identified as significant under Criteria A/1 for its association with evolving medical care in Los Angeles County during the late nineteenth and early twentieth centuries. Based upon this significance finding, a period of significance has been identified as 1888, when the property began operation as the Los Angeles County Poor Farm, and 1952 when the former poor farm had fully converted into a long-term healthcare facility and most of the agricultural fields had been subdivided for residential development. Additionally, the property was determined significant under National Register Criterion C as a significant and distinguishable entity whose components lack individual distinction (historic district).

Location

The South Campus has remained in its original location since it opened as the Los Angeles County Poor Farm in 1888. Therefore, the South Campus retains its integrity of location for the period of significance (1888-1952).

Design

When the South Campus was originally planned by the Los Angeles based architectural firm of Kysor, Morgan, and Walls in 1887, the intent was to build an agricultural institution. Initially conceived as the Los Angeles County Poor Farm, the South Campus was intended to provide food, shelter, and clothing to the County's indigent population. The four original buildings were centrally located among agricultural fields. Overtime, the South Campus expanded as the needs of the institution evolved. The agricultural fields

receded as new patient wards were constructed alongside support and administration facilities. While the current conditions of the South Campus do not reflect the original design intent of Kysor, Morgan, and Walls, the changes that occurred to the property throughout the late nineteenth and early twentieth centuries are what make it significant. The changes to the South Campus reflect changing approaches to healthcare that were occurring locally as well as nationwide. The greatest period of change for the property occurred between 1907 and 1932, when XX buildings were constructed, many of which remain extant. Although they were not constructed based on a master plan developed by the sites original designers, they reflect the changing needs of the institution. The South Campus retains intact examples of each of the building types that were present throughout the period of significance (1888-1952). Therefore, the South Campus retains its integrity of design reflecting the evolution of the property throughout its transition from a poor farm to a long-term healthcare facility.

Workmanship

As stated previously, the South Campus developed over a period of time, transitioning from a poor farm into a long-term healthcare facility. Throughout the period of significance (1888-1952), new buildings and features were constructed to meet the evolving needs of the institution. These buildings and features reflect a variety of architectural styles and construction techniques based upon their purpose and date of construction. Currently the South Campus retains examples of a variety of architectural styles, including Craftsman, Neoclassical Revival, Spanish Colonial Revival, Renaissance Revival and brick vernacular, as well as utilitarian structures. Additionally, the South Campus retains 62 contributing buildings and features, constructed over a sixty-year period. These buildings and features, which remain intact and retain enough integrity to contribute to the District, reflect a wide variety of uses, construction techniques, and workmanship. Therefore, the South Campus retains integrity of workmanship.

Materials

The South Campus has suffered from deterioration of its original materials overtime. Despite the deterioration that has occurred, the contributing buildings found throughout the District retain their original materials including, wood, masonry, cast iron, concrete, and plaster. The contributing buildings represent each of the building types that were located on the property during the period of significance (1888-1952), reflecting the changes that occurred to the institution as it adapted to the healthcare needs of the County. In its current condition, the South Campus possesses the necessary materials to reflect its significance. Therefore, the South Campus retains its integrity of materials.

Setting

The historic setting of the South Campus has been altered significantly over time due to the subdivision of the former agricultural fields. Properties north of the South Campus have been redeveloped with warehouses and office buildings, while properties to the east were subdivided for residential development in the 1950s. Although these changes to the setting have removed the former poor farm from its agricultural setting, the changes reflect the property's transformation from a poor farm into a long-term healthcare facility. While the fields surrounding the former poor farm have been lost due to infill development, the immediate setting of the District and its contributors remains intact. The original circulation paths remain,

reflecting the property's original layout during its inception in 1888. The District retains 62 contributing buildings and features, constituting a majority of the buildings present during the District's period of significance (1888-1952). Although the landscaping has evolved over time, the open areas throughout the District's interior remain without infill development, reflecting the conditions of the property during the period of significance. While the broader setting outside of the District has been altered by infill development, the immediate setting that contributes to the District's significance remains intact. Therefore, the District retains its integrity of setting.

Feeling

The District retains examples of the eight different building types that were present during the period of significance (1888-1952). Each of the building types contributed to the overall function of the institution. In addition to the contributing buildings, the District retains its original circulation paths and open landscape with very little infill development. With 62 contributing buildings and features reflecting a variety of uses, the South Campus continues to convey the feeling of an early twentieth century healthcare facility and retains its integrity of feeling.

Association

The South Campus continued to operate as a healthcare facility until the 1980s, when the County began to abandon the buildings. Currently, only the former Administration Building is in regular use. However, none of the contributing buildings, including the administration building, have been significantly altered for new uses. Therefore, because the contributing buildings continue to reflect their original healthcare related uses, the District retains its integrity of association.

Summary

The South Campus meets the National Register and California Register integrity requirements, retaining its integrity of location, design, workmanship, materials, setting, feeling, and association. The District remains in its original location since it opened as a poor farm in 1888. It has been identified as significant for its association with the evolving healthcare needs of Los Angeles County during the late nineteenth and early twentieth centuries. Although the District no longer reflects the original design intent of the architects as constructed in 1888, the changes that occurred to the property overtime have contributed to its significance. New buildings were added to the site overtime based on need and space available. Many of the buildings constructed during the period of significance (1888-1952) remain intact with little modification. The 62 contributing buildings, structures, and features represent eight different building types, reflecting their different uses and the overall function of the institution as it evolved into a long-term healthcare facility. Therefore, the District retains its integrity of design as it evolved over time. While some of the materials have deteriorated due to the abandonment of the site, the materials are intact and continue reflect the workmanship of the builders and designers at the time of their construction. The surrounding setting has changed significantly since the District was first developed as a poor farm. The former agricultural fields that once surrounding the property have been subdivided for residential and commercial development. However, these changes reflect the property's significance as it evolved from a poor farm into a healthcare facility. The immediate setting within the district boundaries remains intact and continues to reflect the District's historic

appearance. Consequently, the District retains its integrity of feeling as an early twentieth century healthcare facility, retaining key building types like the several patient wards and the administration building. The District retains integrity of association because the majority of the contributing buildings remain in the original condition. None of the buildings have been repurposed in a manner that resulted in substantial change. The property has been mostly abandoned for the last thirty years, with the exception of the Administration Building (LACO No. 1100), which has continued to operate as an office building. Therefore, the Rancho Los Amigos Historic District retains integrity of location, design, workmanship, materials, setting, feeling, and association.

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Additional Photographs

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Overview of Aliso Street near intersection with Laurel Street, View facing Southeast (ESA, June 23, 2017)



Overview of Aliso Street near intersection with Juniper Street, View facing Southeast (ESA, June 23, 2017)

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Overview of Aliso Street near intersection with Erickson Avenue, View facing Northwest (ESA, June 23, 2017)



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Overview of Bonita Street near intersection with Erickson Avenue, View facing Northwest (ESA, June 23, 2017)



Overview of Bonita Street at intersection with Erickson Avenue, View facing Southeast (ESA, June 23, 2017)

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Overview of Bonita Street near intersection with Erickson Avenue, View facing Southeast (ESA, June 23, 2017)



Overview of Bonita Street, View facing Northwest (ESA, June 23, 2017)



Overview of Consuelo Street near intersection with Bonita Street, View facing Northwest (ESA, June 23, 2017)



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Overview of Consuelo Street near intersection with Dahlia Avenue, View facing Northwest (ESA, June 23, 2017)



Overview of Consuelo Street, View facing Southeast (ESA, June 23, 2017)



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Overview of Consuelo Street near intersection with Erickson Avenue, View facing Southwest (ESA, June 23, 2017)



Overview of Dahlia Avenue, View facing West (ESA, June 23, 2017)

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Overview of Dahlia Avenue at intersection with Golondrinas Street, View facing Southwest (ESA, June 23, 2017)



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Overview of Dahlia Avenue near intersection with Flores Street, View facing Southwest (ESA, June 23, 2017)



Overview of Descanso Street near intersection with Laurel Street, View facing Southeast (ESA, June 23, 2017)

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Overview of Descanso Street near intersection with Laurel Street, View facing Southeast (ESA, June 23, 2017)



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Overview of Descanso Street at intersection with Juniper Street, View facing Northwest (ESA, June 23, 2017)



Overview of Descanso Street at intersection with Juniper Street, View facing Southeast (ESA, June 23, 2017)

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Overview of Descanso Street at intersection with Erickson Avenue, View facing Northwest (ESA, June 23, 2017)



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Overview of Erickson Avenue at intersection with Aliso Street, View facing Northeast (ESA, June 23, 2017)



Overview of Erickson Avenue at intersection with Bonita Street, View facing Northeast (ESA, June 23, 2017)

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Overview of Erickson Avenue at intersection with Descanso Street and Consuelo Street, View facing Northeast (ESA, June 23, 2017)



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Overview of Erickson Avenue at intersection with Consuelo Street and Descanso Street, View facing Northeast (ESA, June 23, 2017)



Overview of Erickson Avenue near intersection with Consuelo Street and Descanso Street, View facing East (ESA, June 23, 2017)



Overview of Erickson Avenue at intersection with Esperanza Street, View facing Southwest (ESA, June 23, 2017)



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Overview of Erickson Avenue at intersection with Flores Street, View facing Southwest (ESA, June 23, 2017)



Overview of Erickson Avenue near intersection with Golondrinas Street, View facing Southwest (ESA, June 23, 2017)

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Overview of Esperanza Street at intersection with Hawthorne Avenue, View facing Northwest (ESA, June 23, 2017)



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Overview of Esperanza Street near intersection with Laurel Avenue, View facing Southeast (ESA, June 23, 2017)



Overview of Golondrinas Street near intersection with Laurel Avenue, View facing Southeast (ESA, June 23, 2017)

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Overview of Golondrinas Street at intersection with Dahlia Avenue, View facing Northwest (ESA, June 23, 2017)



Overview of Juniper Street at intersection with Aliso Street, View facing Northeast (ESA, June 23, 2017)

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Overview of Juniper Street at intersection with Descanso Street, View facing Southwest (ESA, June 23, 2017)



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Overview of Laurel Street near intersection with Flores Street, View facing Southwest (ESA, June 23, 2017)



Overview of Laurel Street near intersection with Aliso Street, View facing Southwest (ESA, June 23, 2017)

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Overview of Laurel Street near intersection with Aliso Street, View facing Northeast (ESA, June 23, 2017)



Overview of Rose Float Area (including LACO Nos. 1991, 2637, 3591, 7704), View facing South (ESA, June 22, 2017)

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Overview of Rose Float Area (including LACO Nos. 1991, 2637, 3591, 7704), View facing Southeast (ESA, June 22, 2017)



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Overview of Landscape between LACO Nos. 1101 and 3022 (Harriman/Superintendent's House and Bus Stop), View facing East (ESA, June 22, 2017)



Overview of Landscape between LACO Nos. 1101 and 3022 (Harriman/Superintendent's House and Bus Stop), View facing West (ESA, June 22, 2017)



Overview of Landscape between LACO Nos. 1101 and 3022 (Harriman/Superintendent's House and Bus Stop), View facing North (ESA, June 22, 2017)



Overview of Landscape between LACO Nos. 1101 and 3022 (Harriman/Superintendent's House and Bus Stop), View facing Southwest (ESA, June 22, 2017)



Overview of LACO No. 1100 (Administration/Safety Building), View facing Northwest (ESA, June 19, 2017)



Overview of LACO No. 1121 (Staff Cottage), View facing East (ESA, June 21, 2017)



Overview of LACO No. 1123 (Staff Cottage), View facing North (ESA, June 21, 2017)

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Overview of LACO No. 1137 (Dairyman's House), View facing Southeast (ESA, June 22, 2017)



Overview of LACO No. 1179 (Dairyman's Garage), View facing North (ESA, June 22, 2017)

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Overview of LACO No. 2677 (Post Office), View facing Northeast (ESA, June 22, 2017)



Overview of LACO No. 1205 (Men's Psychiatric Ward), View facing South (ESA, June 20, 2017)

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Overview of LACO No. 1184 (General Ward 30), View facing Southwest (ESA, June 21, 2017)



Overview of LACO No. 1185 (General Ward 40), View facing West (ESA, June 21, 2017)

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Overview of LACO No. 1186 (General Ward 50), View facing West (ESA, June 21, 2017)



Overview of LACO No. 1203 (Women's Psychiatric Ward), View facing Southeast (ESA, June 20, 2017)

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Overview of LACO No. 1260 (Bathhouse and Ward), View facing Northwest (ESA, June 20, 2017)



Overview of LACO No. 1187 (General Ward 60), View facing Northeast (ESA, June 21, 2017)

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***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1238 (Trunk Storage), View facing East (ESA, June 21, 2017)



Overview of LACO No. 1204 (Men's Psychiatric Ward), View facing Northwest (ESA, June 19, 2017)

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***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1202 (Women's Psychiatric Ward), View facing Northwest (ESA, June 20, 2017)



Overview of LACO No. 1188 (General Ward 70), View facing South (ESA, June 21, 2017)



Overview of LACO No. 1244 (Toilet Room), View facing Southeast (ESA, June 19, 2017)



Overview of LACO No. 1242 (Toilet Room), View facing North (ESA, June 19, 2017)



Overview of LACO No. 1247 (Toilet Building), View facing West (ESA, June 19, 2017)



Overview of LACO No. 1256 (Toilet Building), View facing North (ESA, June 20, 2017)



Overview of LACO No. 1239 (Toilet Building), View facing West (ESA, June 20, 2017)



Overview of LACO No. 1241 (Linen Room), View facing Southwest (ESA, June 20, 2017)



Overview of LACO No. 1189 (Patient Ward 201), View facing North (ESA, June 21, 2017)



Overview of LACO No. 1190 (Patient Ward 202), View facing East (ESA, June 22, 2017)



Overview of LACO No. 1191 (Patient Ward 203), View facing North (ESA, June 21, 2017)



Overview of LACO No. 1192 (Patient Ward 204), View facing North (ESA, June 22, 2017)

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Overview of LACO No. 1193 (Patient Ward 205), View facing South (ESA, June 22, 2017)



Overview of LACO No. 1194 (Patient Ward 206), View facing South (ESA, June 22, 2017)

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***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1195 (Patient Ward 207), View facing South (ESA, June 22, 2017)



Overview of LACO No. 1196 (Patient Ward 208), View facing South (ESA, June 22, 2017)



Overview of LACO No. 1197 (Patient Ward 209), View facing Southwest (ESA, June 22, 2017)



Overview of LACO No. 1198 (Patient Ward 210), View facing West (ESA, June 23, 2017)



Overview of LACO No. 1199 (Patient Ward 211), View facing Southeast (ESA, June 23, 2017)



Overview of LACO No. 1263 (Commissary and Receiving Room), View facing South (ESA, June 23, 2017)



Overview of LACO No. 1262 (Dining Room, Kitchen, Staff Room), View facing Northeast (ESA, June 23, 2017)



Overview of LACO No. 1261 (Auditorium), View facing Northeast (ESA, June 20, 2017)

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Overview of LACO No. 1312 (Aviary), View facing West (ESA, June 19, 2017)



Overview of LACO No. 1254 (Chapel/Computer Center), View facing Southeast (ESA, June 19, 2017)

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Overview of LACO No. 1295 (Kitchen and Dining Building), View facing North (ESA, June 21, 2017)

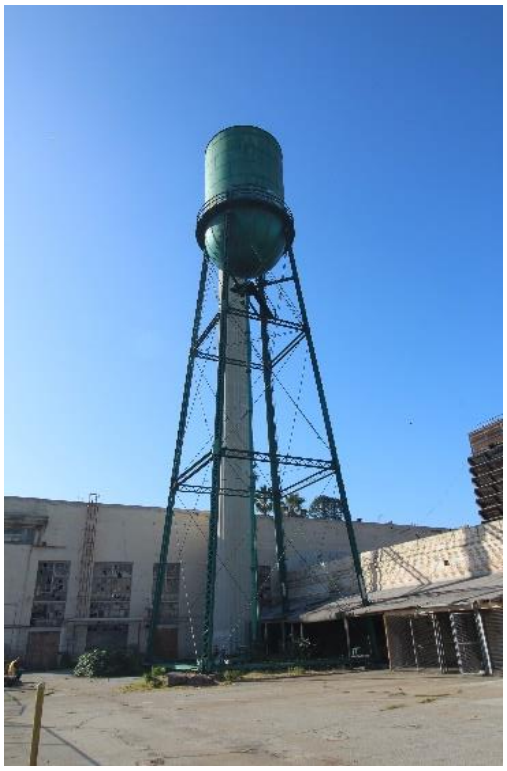


Overview of LACO No. 1264 (Bonita Hall), View facing North (ESA, June 21, 2017)

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Overview of LACO No. 1301 (Water Tower), View facing Southeast (ESA, June 21, 2017)



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Overview of LACO No. 1302 (Shop, Laundry, Ice Plant), View facing North (ESA, June 21, 2017)



Overview of LACO No. 1300 (Power Plant), View facing West (ESA, June 21, 2017)



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Overview of LACO No. 1207 (Work Preparation Center No. 2), View facing Northwest (ESA, June 20, 2017)



Overview of LACO No. 1283 (Trunk Storage), View facing East (ESA, June 22, 2017)



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Overview of LACO No. 1335 (Brooder House/Vivarium Annex), View facing South (ESA, June 20, 2017)



Overview of LACO No. 1276 (Lock Shop), View facing Northwest (ESA, June 20, 2017)



Overview of LACO No. 1275 (Workshop), View facing Northeast (ESA, June 20, 2017)



Overview of LACO No. 1278 (Garage and Storage), View facing Northeast (ESA, June 20, 2017)



Overview of LACO No. 1277 (Garage), View facing Northeast (ESA, June 20, 2017)

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Overview of LACO No. 1279 (Garage), View facing Southwest (ESA, June 20, 2017)



Overview of LACO No. 1356 (Tool House), View facing Southwest (ESA, June 22, 2017)



Overview of LACO No. 1280 (Garage Storage), View facing North (ESA, June 20, 2017)



Overview of LACO No. 1268 (Storage), View facing East (ESA, June 20, 2017)



Overview of LACO No. 1270 (Garage), View facing North (ESA, June 20, 2017)



Overview of LACO No. 1357 (Landscape Office), View facing Southeast (ESA, June 22, 2017)



Overview of LACO No. 954 (Lumber Shed), View facing East (ESA, June 20, 2017)



Overview of LACO No. 3348 (Garbage Can Room), View facing Southeast (ESA, June 20, 2017)



Overview of LACO No. 1265 (Shelter), View facing West (ESA, June 19, 2017)



Overview of LACO No. 1101 (Harriman/Superintendent's House), View facing Southwest (ESA, June 28, 2017)



Overview of LACO No. 1177 (Superintendent's Garage), View facing South (ESA, June 19, 2017)



Overview of LACO No. 1178 (Superintendent's Shed), View facing Southeast (ESA, June 19, 2017)



Overview of LACO No. 1245 (Linen Room/Snack Bar No. 3), View facing Northeast (ESA, June 19, 2017)



Overview of LACO No. 2434 (Shed, Men's Gymnasium), View facing Southeast (ESA, June 19, 2017)

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Overview of LACO No. 2435 (Patient Recreation Shed), View facing Northwest (ESA, June 19, 2017)



Overview of LACO No. 2436 (Classroom Hut/Shed), View facing North (ESA, June 19, 2017)

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Overview of LACO No. 1266 (Amigos Hall), View facing Northeast (ESA, June 20, 2017)



Overview of LACO No. 3592 (Chapel), View facing East (ESA, June 19, 2017)

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***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1292 (Pump House), View facing Southeast (ESA, June 21, 2017)



Overview of LACO No. 5548 (Steam Plant), View facing Northwest (ESA, June 21, 2017)



Overview of LACO No. 5513 (Station 18), View facing Southwest (ESA, June 21, 2017)



Overview of LACO No. 5798 (Electrical Station 16), View facing Northeast (ESA, June 28, 2017)

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Property Name: _Rancho Los Amigos Historic District_

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Overview of LACO No. 5799 (Electrical Station 4C), View facing Southwest (ESA, June 21, 2017)



Overview of LACO No. 5801 (Generator House), View facing North (ESA, June 21, 2017)



Overview of LACO No. 6223 (Electrical Station), View facing East (ESA, June 21, 2017)



Overview of LACO No. 6225 (Electrical Station), View facing Southwest (ESA, June 20, 2017)

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Overview of LACO No. 6407 (Unknown), View facing Northeast (ESA, June 19, 2017)



Overview of LACO No. 1163 (Generator House), View facing Southeast (ESA, June 20, 2017)

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Overview of LACO No. 1284 (Water Tanks), View facing Northeast (ESA, June 22, 2017)



Overview of LACO No. 1373 (Grain Tank), View facing Northeast (ESA, June 22, 2017)



Overview of LACO No. 1374 (Grain Tank), View facing Northeast (ESA, June 22, 2017)



Overview of LACO No. 1286 (Garage/Storage), View facing Northeast (ESA, June 22, 2017)



Overview of LACO No. 1464 (Shed), View facing Southeast (ESA, June 20, 2017)



Overview of LACO No. 2437 (Metal Shed), View facing North (ESA, June 19, 2017)



Overview of LACO No. 1287 (Oil and Storage), View facing West (ESA, June 28, 2017)



Overview of LACO No. 1267 (Transportation Office), View facing Southwest (ESA, June 20, 2017)



Overview of LACO No. 1259 (Wheelchair Repair), View facing Northwest (ESA, June 20, 2017)



Overview of LACO No. 2492 (Toilet Room), View facing Northwest (ESA, June 22, 2017)



Overview of LACO No. 3390 (Prosthetic Shop), View facing Southeast (ESA, June 21, 2017)



Overview of LACO No. 3820 (Loading Dock), View facing North (ESA, June 19, 2017)

CONTINUATION SHEET

Property Name: _Rancho Los Amigos Historic District_____
Page __92___ of _97____

***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1379 (Garage), View facing South (ESA, June 20, 2017)



Overview of LACO No. 4118 (Garage), View facing North (ESA, June , 2017)

CONTINUATION SHEET

***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 3368 (Shed), View facing North (ESA, June 20, 2017)



Overview of LACO No. 2494 (Shed), View facing North (ESA, June 22, 2017)

CONTINUATION SHEET

Property Name: _Rancho Los Amigos Historic District_____
Page __94___ of _97____

***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1353 (Greenhouse), View facing Northwest (ESA, June 19, 2017)



Overview of LACO No. 1251 (Open Shelter), View facing Southwest (ESA, June 19, 2017)

***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 1243 (Open Shelter), View facing Southwest (ESA, June 19, 2017)



Overview of LACO No. 1240 (Shelter), View facing Southeast (ESA, June 19, 2017)



Overview of LACO No. 1246 (Canopy), View facing Northwest (ESA, June 19, 2017)



Overview of LACO No. 1290 (Shelter), View facing Southeast (ESA, June 20, 2017)

CONTINUATION SHEET

Property Name: _Rancho Los Amigos Historic District_
Page __97___ of _97____

***Recorded by:** ESA ***Date** June 19-24, 2017 X Continuation □Update



Overview of LACO No. 3021 (Bus Stop), View facing Northwest (ESA, June 21, 2017)



Overview of LACO No. 3022 (Bus Stop), View facing Southeast (ESA, June 21, 2017)

Appendix D

DPR 523A (Primary Record), 523B (Building, Structure, Object), and 523L (Continuation Sheets) Forms, 2017

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189364
HRI #
Trinomial
NRHP Status Code

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) Shelter
P1. Other Identifier: LACO No. 1240; Shelter
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 1240 is located in the interior courtyard created by two U-shaped patient wards, LACO No. 1204 to the east, and LACO No. 1203 to the west, with Flores Street to the north. It is situated in the northeast area of the South Campus of Rancho Los Amigos. It is a single-story rectangular shaped canopy, featuring metal posts set in a concrete pad. The post support wood beams and a flat aluminum roof and scalloped fascia board. The shelter is partially enclosed with screened chain-link fencing.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View NE, 6/19/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
Date of construction is unknown. Historic aerials and Sanborn maps show a different structure in the same location as late as 1963.
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 9/5/2017
***P10. Survey Type:** (Describe)
Intensive pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.
***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Shelter
***NRHP Status Code** 6Z

B1. Historic Name: Shelter
B2. Common Name: Shelter
B3. Original Use: Shelter B4. Present Use: Shelter
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 1240 is a metal and wood canopy located in the courtyards of LACO No. 1202 and LACO No. 1203. The construction date of the currently extant shelter is unknown. Early historical aerials of the property show a smaller structure with a pitched roof in the same location as LACO No. 1240. This is confirmed in a 1932 Sanborn map of the property, which depicts a smaller structure in the location of LACO No. 1240. A 1963 aerial of the property shows a similar structure in the location of LACO No. 1240 but it has a dark colored roof in the black and white photo, as opposed to the white metal roof of the current structure. The materials and design of LACO No. 1240 match the materials and design of similar canopies found in the courtyards of neighboring patient wards (LACO No. 1205 and LACO No. 1204). The similar canopies are not present on the property until sometime after 1963. Alterations to the shelter include the partial enclosure with screened chain-link fencing completed at an unknown date.

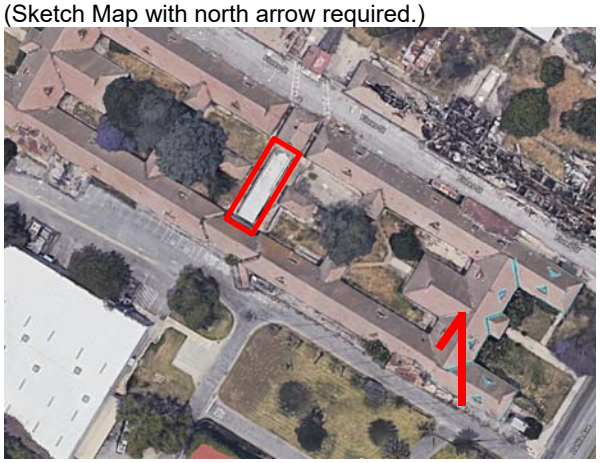
***B7. Moved?** ☒**No** ☐**Yes** ☐**Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The shelter is located in the courtyard areas of LACO No. 1202 and LACO No. 1203.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Patient Ward (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 1240 was originally identified as a contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 9/5/2017

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 1240 (P-19-189364) (continued from the BSO Record)

Previous evaluations identified the structure's construction date as 1930. However, historical aerial images from 1963 and earlier show different shelter structures in the location of LACO No. 1240. The Shelter appears to have been constructed after the district's period of significance had ended in 1952 and should be considered a non-contributor to the historic district. As utilitarian structure, the Shelter does not appear to have a significant association historic events or personages and is not an excellent example of a type or style of architecture or the work of a master architect. The structure is not a significant source of information associated with history or prehistory. Therefore, the Shelter is not eligible as an individual resource under any of the applicable nation, state, or local criteria and is not a contributor to the Rancho Los Amigos Historic District.

Additional Photographs

Shelter (LACO No. 1240) (P-19-189364)



LACO No. 1240, Side (north) elevation of Shelter, View to southwest (ESA June 19, 2017)



LACO No. 1240, Detail, Underside of canopy roof, view to southwest (ESA June 19, 2017)



LACO No. 1240, View from under Shelter, view to south (ESA June 19, 2017)



LACO No. 1240, Detail view of metal posts and wood beams (ESA June 19, 2017)



LACO No. 1240, Detail, Chain-link fencing addition, view to northeast (ESA June 19, 2017)



LACO No. 1240, View under Shelter, view to north (ESA June 19, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189370
HRI #
Trinomial
NRHP Status Code

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 5 ***Resource Name or #:** (Assigned by recorder) Canopy

P1. Other Identifier: LACO No. 1246; Canopy

***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**

***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**

c. Address _____ City Downey Zip 90242

d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 1246 is located in the interior courtyard of LACO No. 1204 (patient ward). The canopy structure is bound by the patient ward, LACO No. 1204 to the east, north, and south and LACO No. 1203 (patient ward) to the west. It is situated in the northeast area of the South Campus of Rancho Los Amigos. It is a single-story rectangular shaped canopy, featuring metal posts set in a concrete pad. The post support metal I-beams beams and a low pitched aluminum roof. The northwest corner of the canopy roof is partially caved in.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building

***P4. Resources Present:**

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



X Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) View NE, 6/19/2017

***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
Date of construction is unknown. Historic aerials show a different structure with a hipped roof in the same location as late as 1954.

***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012

***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 9/5/2017

***P10. Survey Type:** (Describe)
Intensive pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Canopy
***NRHP Status Code** 6Z

B1. Historic Name: Canopy
B2. Common Name: Canopy
B3. Original Use: Canopy B4. Present Use: Shelter
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 1246 is a metal canopy located in the courtyards of LACO No. 1204. The construction date of the currently extant canopy is unknown. Early historical aerials of the property show a structure with a hipped roof in the same location as LACO No. 1246, as early as 1926. A 1960 aerial image of the property shows a structure very similar LACO No. 1246 in the LACO No. 1204 courtyard. The materials and design of LACO No. 1246 match the materials and design of similar canopies found in the courtyards of the patient wards (LACO No. 1205 and LACO No. 1204). The similar canopies are not present on the property until sometime after 1960.

***B7. Moved?** ☒**No** ☐**Yes** ☐**Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The canopy is located in the courtyard area of LACO No. 1204.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Patient Ward (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility.
LACO No. 1246 was originally identified as a contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 9/5/2017

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR).

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 1246 (P-19-189370) (continued from the BSO Record)

Previous evaluations identified the structure's construction date as 1930. However, historical aerial images from 1954 and earlier show a different canopy structure in the location of LACO No. 1246. The Canopy appears to have been constructed after the district's period of significance had ended in 1952 and should be considered a non-contributor to the historic district. As utilitarian structure, the Canopy does not appear to have a significant association with historic events or personages and is not an excellent example of a type or style of architecture or the work of a master architect. The structure is not a significant source of information associated with history or prehistory. Therefore, the Canopy is not eligible as an individual resource under any of the applicable nation, state, or local criteria and is not a contributor to the Rancho Los Amigos Historic District.

Additional Photographs

Shelter (LACO No. 1246) (P-19-189370)



LACO No. 1246, Side (south) elevation of Canopy, View to north (ESA June 19, 2017)



LACO No. 1246, Detail, Underside of canopy roof, view to northwest (ESA June 19, 2017)



LACO No. 1246, East elevation of Canopy, view to west (ESA June 19, 2017)



LACO No. 1246, North elevation of Canopy, view to the south (ESA June 19, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189376
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) Wheelchair Repair Building
P1. Other Identifier: LACO No. 1259; Wheelchair Repair Building
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 1259 is located near the western boundary of the Rancho Los Amigos Historic District, directly adjacent to LACO No. 1207, Work Preparation Center. The Wheelchair Repair building is bound by Descanso Street to the north, LACO No. 1207 and Laurel Street to the west. To the south and east of the Wheelchair Repair building are open parking lots and metal shed structures. The Wheelchair Repair building is a single-story rectangular shaped utilitarian building with vertical board and batten wood siding. The main portion of the building features a pitched roof with overhanging eaves, while an addition to the south elevation is topped with a shed-style roof. The building's south elevation has a single, partially glazed wood door and metal security screen flanked by three window openings that are boarded. The north elevation has two door openings that are boarded and a door opening that has been infilled with board and batten siding. Window openings at the west end of the north elevation are boarded. The east and west elevations feature window openings that are boarded or infilled with board and batten siding. The west elevation features a single wood, partially glazed door hidden behind a plywood barrier. The doorway is accessed by a small concrete ramp.

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building
***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View N, 6/20/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1932, according to historic aerials and Sanborn maps.
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/8/2018
***P10. Survey Type:** (Describe)
Intensive pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Wheelchair Repair Building
***NRHP Status Code** 6Z

B1. Historic Name: Wheelchair Repair Building
B2. Common Name: Wheelchair Repair Building
B3. Original Use: Laundry B4. Present Use: N/A
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 1259 was constructed in 1932. A 1932 Sanborn map of the property depicts LACO No. 1259 as an L-shaped building. A 1963 aerial of the property shows the same, L-shaped building. Alterations to the shelter the gable roof and shed roof additions were made some time after 1963.

***B7. Moved?** ☒**No** ☐**Yes** ☐**Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The building is located adjacent to LACO No. 1207.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952) **Area** Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Wheelchair Repair Building (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 1259 was originally identified as a contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/8/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

***B10. Significance (continued)**

LACO No. 1259 (P-19-189364) (continued from the BSO Record)
Previous evaluations identified the structure's construction date as 1932. However, a historical aerial image from 1963 and a Sanborn map image from 1932 show an L-shape building in the location of LACO No. 1259. The Wheelchair Repair Building appears to have been altered with additions after the district's period of significance had ended in 1952. Because of this, it should be considered a non-contributor to the historic district. Furthermore, as utilitarian structure, the Wheelchair Repair Building does not appear to have a significant association with historic events or personages and is not an excellent example of a type or style of architecture or the work of a master architect. The structure is not a significant source of information associated with history or prehistory. Therefore, the Wheelchair Repair Building is not eligible as an individual resource under any of the applicable national, state, or local criteria and is not a contributor to the Rancho Los Amigos Historic District.

Additional Photographs

Wheelchair Repair Building (LACO No. 1259) (P-19-189376)



LACO No. 1259, east elevation of Wheelchair Repair Building, view to west (ESA June 20, 2017)



LACO No. 1259, south elevation of Wheelchair Repair Building, view to northeast (ESA June 20, 2017)



LACO No. 1259, north elevation of Wheelchair Repair Building, view to south (ESA June 20, 2017)



LACO No. 1259, west elevation of Wheelchair Repair Building, view to southeast (ESA June 20, 2017)

CONTINUATION SHEET

Property Name: Wheelchair Repair Building: LACO No. 1259



LACO No. 1259, Detail, entrance to west elevation of Wheelchair Repair Building, view to northeast (ESA June 20, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189378
HRI #
Trinomial
NRHP Status Code 2D2

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 8 ***Resource Name or #:** (Assigned by recorder) Auditorium (LACO No. 1261)
P1. Other Identifier: Auditorium (LACO No. 1261)
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The Auditorium (LACO No. 1261) is in the central area of the Rancho Los Amigos campus, west of the Moreton Bay Fig Tree and Shelter (LACO No. 1265), across a grassy setback from Erickson Avenue. It is a two-story, unreinforced masonry building with a rectangular plan and smooth stucco siding. It was originally designed in the Spanish Colonial Revival style, but was modified to resemble a relatively bare Art Deco building. Minor changes were observed in the 2017 survey as compared with the 2007-2011 Sapphos survey. These physical changes since the last survey include the further boarding of most windows and doors, and deterioration of stucco to reveal brick underneath on all elevations. The 2017 survey revealed an overall degraded condition of Auditorium (LACO No. 1261).

***P3b. Resource Attributes:** (List attributes and codes) HP10. Theater
***P4. Resources Present:**
☒ Building □ Structure □ Object □ Site □ District ☒ Element of District
□ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View W, 6/20/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1928
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/8/2018
***P10. Survey Type:** (Describe)
Intensive pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Auditorium (LACO No. 1261)
***NRHP Status Code** 2D2

B1. Historic Name: Auditorium
B2. Common Name: Auditorium
B3. Original Use: Auditorium/Theater B4. Present Use: Auditorium
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
No building permits were found for this building. By the mid-1950s, the exposed brick walls of the Spanish style building had been whitewashed, according to a photograph taken at the time. Subsequent modifications made in 1972 had the effect of changing the Spanish Colonial Revival appearance of the building to a style influenced by the Art Deco, which was experiencing a new appreciation during the period. Alterations as they appear from original building plans and historic photographs include: painted stucco applied to the building's once exposed brick exterior walls and over the concrete lintels of the first-floor windows and doors; the removal of the tile roof; and the removal of original wrought-iron grilles attached to the three windows on the second-story façade.

***B7. Moved?** ☒**No** ☐**Yes** ☐**Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:**
Landscape features associated with the Auditorium (LACO NO. 1261) include wrought iron railing with a drinking fountain and double sloping concrete walkways and a concrete pad in front of the east (primary) elevation.

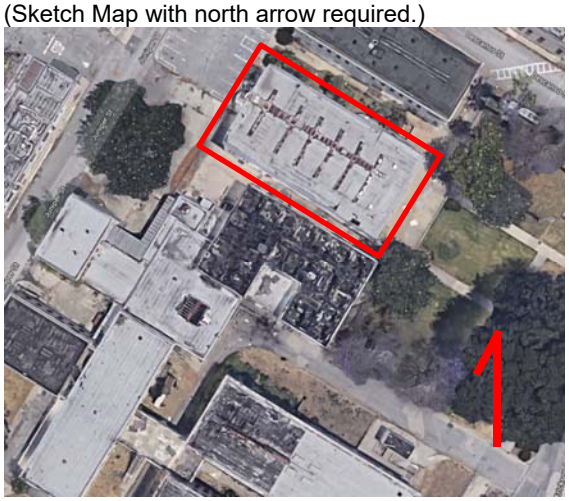
B9a. Architect: Karl Wilhelm Muck **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Dining and Social Facilities (Auditorium) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. *See Continuation Sheets*.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets

***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/8/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR).

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

Auditorium LACO No. 1261 (P-19-189378) (continued from the BSO Record)
The Auditorium (LACO No. 1261) was originally identified as a contributing structure to the Rancho Los Amigos Historic District. The 2017 Survey revealed that little has changed since the Auditorium was last surveyed in 2007 and appears to remain eligible as a contributing structure to the Rancho Los Amigos Historic District.

The Auditorium (LACO No. 1261) was previously recommended individually eligible under National Register Criterion C and California Register Criteria 3 by Post/Hazeltine Associates in 2004. The Auditorium's (LACO No. 1261) individual eligibility was reevaluated under National Register Criterion C and California Register Criterion 3. The most recent survey conducted by Sapphos in 2007-2011 recommended the Auditorium (LACO No. 1261) individually ineligible attributable to alterations to the original Spanish Colonial Revival style design. The Auditorium (LACO No. 1261) was reevaluated under the following historical and architectural themes: Development of the Los Angeles County Poor Farm and

Rancho Los Amigos (1988-1952) and Spanish Colonial Revival Style Architecture (1915-1940). The 850-seat Auditorium (LACO No. 1261) was built in 1928, in order to provide a larger entertainment venue for the growing campus. The Auditorium (LACO No. 1261) was designed by County architect Karl Wilhelm Muck in the Spanish Colonial Revival style. Based upon intensive research and site visit observations, the Auditorium (LACO No. 1261) has been substantially altered and the once restrained Spanish Colonial Revival style is no longer discernable. The design now reflects an Art Deco inspired style.
The original character-defining features on the Auditorium (LACO No. 1261) that embodied the Spanish Colonial Revival style have been removed; stucco has been applied over the exposed brick on all elevations and the cast stone lintels above the first-story fenestration, the front Spanish-tile pent roof and decorative wrought iron grilles over the second-story windows have all been removed, the three pairs of entry doors were replaced, steel windows on the side elevations were removed and openings were infilled. As such, the Auditorium (LACO No. 1261) is not a distinctive or recognizable example of a Spanish Colonial Revival style social facility and in its current altered conditions it does not represent a notable work of County architect Karl Wilhelm Muck. Therefore, the Auditorium (LACO No. 1261) is not individually significant under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architecture.

Additional Photographs

Auditorium LACO No. 1261 (P-19-189378) (P-19-189370)



Three identical six-light, steel-framed original pivot windows centered on the second floor above the entry, View to west (ESA June 20, 2017)



Primary entry, consisting of three pairs of recessed aluminum framed doors with transoms, over-scaled voussoir, and pyramid-capped piers, view to west (ESA June 20, 2017)



Overview of the Auditorium's (LACO No. 1261) side (north) elevation, including secondary entrances on the first and second floors and a concrete staircase supported by heavy concrete brackets, view to southwest (ESA June 20, 2017)



Close-up view of first floor secondary entrance along the Auditorium's (LACO No. 1261) side (north) elevation, the door, transom, and window are boarded, view to the south (ESA June 20, 2017)



Overview of the Auditorium's (LACO No. 1261) rear (west) elevation, dominated by HVAC alteration, view to the southeast (ESA June 20, 2017)



Overview of the Auditorium's (LACO No. 1261) side (south) elevation, consisting of another secondary entrance and original steel sash windows, view to the northwest (ESA June 20, 2017)



Overview of the Auditorium's (LACO No. 1261) associated landscaping, including concrete ramps, and metal railings, view to the west (ESA June 20, 2017)



Close-up view of associated metal railings and original water fountain, view to the south (ESA June 20, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189379
HRI #
Trinomial
NRHP Status Code 2D2

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 13 ***Resource Name or #:** (Assigned by recorder) Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263

P1. Other Identifier: Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263

***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**

***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____ **B.M.**

c. Address _____ City Downey Zip 90242

d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The Dining Room, Kitchen, and Staff Room (LACO No. 1262) is located in the central area of the District and is connected to the Commissary and Receiving Room (LACO No. 1263). The Dining Room, Kitchen, and Staff Room (LACO No. 1262) Commissary and Receiving Room (LACO No. 1263) sit in an area south of the Auditorium (LACO No. 1261), north and west of General Wards 30 and 40 (LACO Nos. 1184 and 1185), east of Workshop (LACO No. 1275), and north of Prosthetic Shop (LACO No. 3390). The Dining Room, Kitchen, and Staff Room (LACO No. 1262) Commissary and Receiving Room (LACO No. 1263) are two-story brick buildings with irregular footprints consisting of a series of additions completed between 1912 and 1926.

***P3b. Resource Attributes:** (List attributes and codes) HP18 Industrial Building, HP41 Hospital

***P4. Resources Present:**

☒ Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) LACO No 1262, Front Elevation, View NW, 6/23/2017

***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1912

***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012

***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/8/2018

***P10. Survey Type:** (Describe) Intensive pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.") Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263)
***NRHP Status Code** 2D2

B1. Historic Name: Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263)
B2. Common Name: Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263)
B3. Original Use: Dining Room, Kitchen, Staff Room, Commissary, and Receiving Room B4. Present Use: Dining Room, Kitchen, Staff Room, Commissary, and Receiving Room
***B5. Architectural Style:** Utilitarian/Brick Vernacular
***B6. Construction History:** (Construction date, alterations, and date of alterations)
No building permits were found for this building. Architectural drawings for the 1913 additions and alterations are on file with the County of Los Angeles and were drawn by Hudson and Munsell, Architects, Los Angeles. Alterations as they appear from historic photographs include: fire damage to the second floor and roof of the 1913 Dining, Game, and Staff Building and the removal of some original wood-framed windows and doors. Minor changes were observed during the 2017 survey as compared with the 2007-2011 Sapphos survey. These changes in the physical condition include the presence of a new metal "roll up" door within an original door opening on the east façade of the Dining and Reading Room portion, adjacent to another large door opening which appears to have been infilled with a smaller door.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The Commissary and Receiving Room (LACO No. 1263) is attached to the adjacent Dining Room, Kitchen, Staff Room (LACO No. 1262) by a hyphen added in 1926.

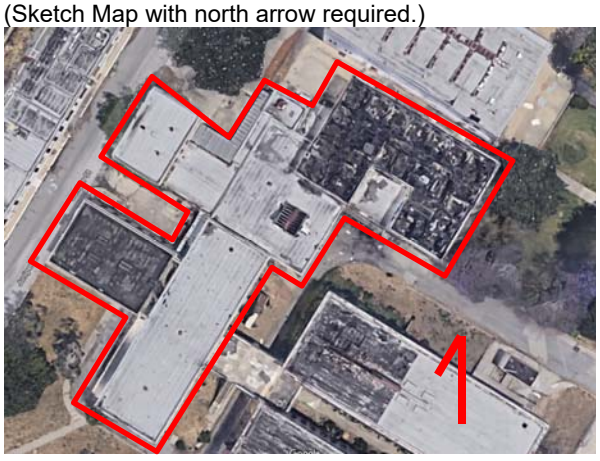
B9a. Architect: Frank Dale Hudson and William A.O. Munsell **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952) **Area** Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Dining and Social Facilities (Dining Room, Kitchen, and Staff Room, Commissary and Receiving Room) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population.
See Continuation Sheets.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets

***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/8/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR).

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

***B10. Significance (continued)**

Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) (P-19-189379) (continued from the BSO Record)

Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. The Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) were originally identified as contributing structures to the Rancho Los Amigos Historic District. While the Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) have changed slightly since the last evaluation by Sapphos in 2007, the changes do not detract from its status as a district contributor.

Because the Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) were previously recommended individually eligible in two previous evaluations under National Register Criterion C and California Register Criterion 3 by Post/Hazeltine Associates in 2004 and Sapphos in 2007, their individual eligibility under National Register Criterion C and California Register

Criterion 3 was reevaluated during the recent survey in 2017. Both Post/Hazeltine and Sapphos evaluated LACO Nos. 1262 and 1263 as one building because they are physically connected, so following their precedent LACO Nos. 1262 and 1263 were reevaluated as one resource under the following historical and architectural themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952), Renaissance Revival and Brick Vernacular Architecture (1895-1935), and Hudson and Munsell. LACO Nos. 1262 and 1263 were built in approximately seven stages between 1912 and 1926 to accommodate the expanding patient population of Rancho Los Amigos. The first portion of LACO No. 1263, the Commissary, was built in 1912 followed by the Receiving Room in 1926.

The Dining and Reading Room, the earliest portion of the LACO NO. 1262, was constructed in 1913 and designed by architectural firm Hudson and Munsell, and followed by the Kitchen addition in 1917, the Dining Extension in 1920, and the final Dining Room addition in 1924.

Therefore, due to the seven additions in the space of 14 years, the architecture does not embody the distinctive characteristics of the Brick Vernacular style with Renaissance Revival style details. Rather, LACO Nos. 1262 and 1263 are representation of utilitarian architecture without a cohesive design. While the architecture firm of Hudson and Munsell designed the Dining Room in LACO No. 1262, it is an altered example and certainly not the most notable of their body of work. Furthermore, the later additions to LACO Nos. 1262 and 1263 are not identified with prominent architects. As such, the Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) are not a distinctive or recognizable example of Renaissance Revival and Brick Vernacular Architecture (1895-1935) and do not represent a notable work Hudson and Munsell. The Dining Room, Kitchen and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) is not individually significant under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architecture.

Due to the substantial deterioration and alterations, Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) does not retain integrity of design, workmanship or materials from the period of significance 1912 to 1926, when the buildings were constructed. Exterior alterations noted during the 2017 survey in comparison with historical photographs and plans have substantially compromised LACO Nos. 1262 and 1263's integrity of design, workmanship, and materials. Alterations to LACO No. 1262 include fire damage to the second story of the 1913 portion of the building; a non-original metal roll-up door on the east elevation; a large entryway infilled with a new door; removal of windows and doors; boarding up of most of the windows and doors; a small stucco addition along the west elevation; an added metal loading dock and canopy; masonry removed from the ornamental frieze at a corner downspout on the west elevation. Alterations to LACO No. 1263 include a small stucco addition along the northeast portion and boarded doors and windows.

Furthermore, there is substantial deterioration of the brick masonry work on both exteriors of LACO Nos. 1262 and 1263. Despite these alterations to the original design, the Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) retains its integrity of association under the historical theme of Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952) and its feeling as a social hub on the subject property. LACO Nos. 1262 and 1263 retains its historical setting adjacent to LACO Nos. 1184-1188, 1262, 1264, 1275, the Moreton Bay Fig Tree, and courtyard. Lastly, the LACO Nos. 1262 and 1263 retain their original location.

As explained under the significance evaluation, the Dining Room, Kitchen, and Staff Room (LACO No. 1262) and Commissary and Receiving Room (LACO No. 1263) is not individually significant under National Register Criterion C and California Register Criterion 3 for architecture because it is not a distinctive example of Brick Vernacular architecture. Furthermore, alterations and the substantial deterioration of the exterior masonry has eroded the simplistic Brick Vernacular architecture and the refined Renaissance Revival style details. Therefore, the lack of design, materials, and workmanship

further substantiates its individual ineligibility under National Register Criterion C, California Register Criterion 3, or Los Angeles County Criteria 3 for architectural significance.

Additional Photographs

Dining Room, Kitchen, and Staff Room (LACO No. 1262) (P-19-189379)



Overview of the Dining Room, Kitchen, and Staff Room (LACO No. 1262) primary elevation, view to west (ESA June 23, 2017)



Side (north) elevation of the Dining Room, Kitchen, and Staff Room (LACO No. 1262), view of arched window openings on ground floor, common bond masonry exterior walls, and decorative string course, view to southwest (ESA June 23, 2017)



Side (south) elevation of the Dining Room, Kitchen, and Staff Room (LACO No. 1262) with the Kitchen addition (1917) in the background, view to west (ESA June 23, 2017)



Fire damage on second floor of the Dining Room, Kitchen, and Staff Room (LACO No. 1262), view to the east (ESA June 23, 2017)



Overview of the Dining Room, Kitchen, and Staff Room (LACO No. 1262) Dining Room addition (1920) with bridge connecting to adjacent patient wards, the addition features similar architectural details to the original 1913 portion of the building but the arched window openings are larger and repeated on the second floor, view to southwest (ESA June 23, 2017)



View of the 1920 Dining Room addition's main entry beneath the bridge connecting adjacent patient wards, view to the west (ESA June 23, 2017)



Overview of the 1920 Dining Room addition's south elevation, view to the north (ESA June 23, 2017)



Overview of the 1920 Dining Room addition's west elevation, view to the northeast (ESA June 23, 2017)



South elevation of the 1924 Dining Room addition, view to the north (ESA June 23, 2017)



Westh elevation of the 1924 Dining Room addition, view to the east (ESA June 23, 2017)



North elevation of the 1924 Dining Room addition, view to the southeast (ESA June 23, 2017)

Commissary and Receiving Room (LACO No. 1263) (P-19-189379)



Close-up view of the detailed cornice found on the Commissary and Receiving Room (LACO No. 1263), view to southeast (ESA June 23, 2017)



The east elevation of the Commissary and Receiving Room (LACO No. 1263) with concrete and metal loading platform and hyphen addition (1926) connecting the Dining Room, Kitchen, and Staff Room (LACO No. 1262), view to southwest (ESA June 23, 2017)



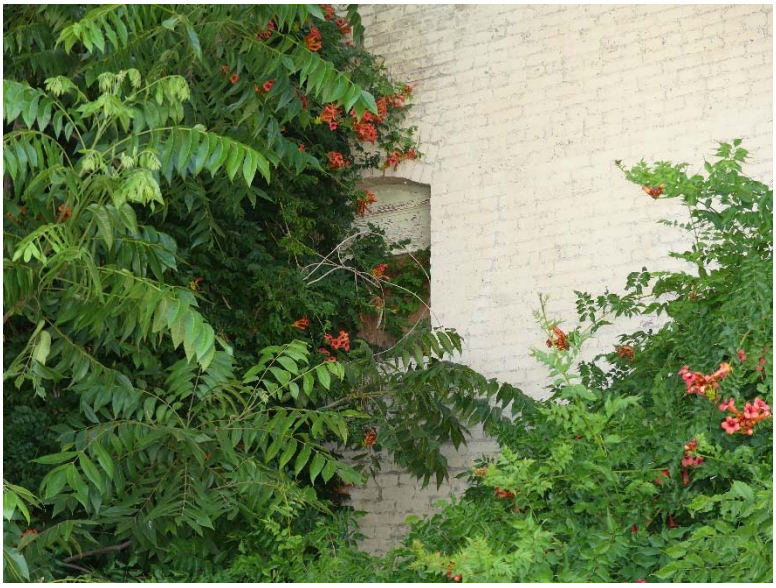
Close-up view of the Commissary and Receiving Room's (LACO No. 1263) common bond unreinforced masonry walls and arched window openings, view to the west (ESA June 23, 2017)



View of the Commissary and Receiving Room (LACO No. 1263) second floor with arched window openings (boarded), view to the southeast (ESA June 23, 2017)



Overview of the Commissary and Receiving Room (LACO No. 1263) side (south) elevation, including hyphen addition (1926) connecting the Dining Room, Kitchen, and Staff Room (LACO No. 1262), view to the northeast (ESA June 23, 2017)



View of an arched window opening on the ground floor of the Commissary and Receiving Room's (LACO No. 1263) west elevation. Although the elevation is obscured by mature vegetation, a single arched window opening was observed on the 1st and second floors, view to the east (ESA June 23, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189389
HRI #
Trinomial
NRHP Status Code 3D

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 4 ***Resource Name or #:** (Assigned by recorder) Garage

P1. Other Identifier: LACO No. 1279; Garage

***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**

***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**

c. Address _____ City Downey Zip 90242

d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 1279 is located in the western half of the Rancho Los Amigos Historic District, adjacent to LACO No. 1280, Garage Storage. The Garage is bound by a paved parking lot and Descanso Street to the north and to the west by a paved parking lot, LACO Nos. 1207 and 1259, and Laurel Avenue. To the south is the adjacent LACO No. 1280, and to the east is LACO 1278. The Garage is a single-story rectangular utilitarian building with wood board siding punctuated by flat wooden beams toward the western end of the building. The building features a corrugated metal gabled roof with a shallow pitch, narrow eaves, and exposed rafter tails at the gables. The building's west (primary) elevation has a boarded window opening and a boarded door opening. The east (rear) elevation comprises a wider opening, which is also boarded. The north elevation has no fenestration. The south elevation has one small, un-boarded window opening toward the western half of the building.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building

***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



□ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View E, 6/20/2017

***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1925 according to historic aerials and images.

***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012

***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/9/2018

***P10. Survey Type:** (Describe)
Intensive pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Garage
***NRHP Status Code** 3D
Page 2 **of** 4

B1. Historic Name: Garage
B2. Common Name: Garage
B3. Original Use: Garage B4. Present Use: N/A
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 1279 was constructed in 1925. Alterations include boarded fenestration.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The building is adjacent to LACO No. 1280.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Garage (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 1279 was originally identified as a non-contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/9/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 1279 (P-19-189404) (continued from the BSO Record)
Due to its high quality and early date of construction, LACO No. 1279 appears to have a significant association with the operation of the L.A. County Poor Farm and is an excellent example of a type or style of architecture or the work of a master architect. The structure is a significant source of information associated with history or prehistory. Therefore, the Garage is a contributor to the Rancho Los Amigos Historic District. It is not eligible as an individual resource under any of the applicable national, state, or local criteria.

Additional Photographs

Garage (LACO No. 1279) (P-19-189389)



LACO No. 1279, north and west (rear) elevations of Garage, view to southeast (ESA June 20, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189392
HRI # 160467
Trinomial
NRHP Status Code 6Z

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) Garage-Storage
P1. Other Identifier: LACO No. 1286; Garage-Storage
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 1286 is located near the southern boundary of the Rancho Los Amigos Historic District, near LACO Nos. 1287 (Oil & Storage), and 2492 (Shed). Garage-Storage is bound by Bonita Street to the north, and open lots and Erickson Avenue west. To the south are LACO Nos. 1287 and 2492 as well as the District boundary. To the east is an alleyway and the District boundary. Garage-Storage is a single-story L-shaped utilitarian building with siding types including vertical board and batten wood siding, corrugated metal siding, and horizontal wood shiplap siding. The roof is an intersecting gabled roof with overhanging eaves and exposed rafter tails. The building's south elevation has two boarded, wood-framed windows and a pair of large wooden entry doors. The north elevation features a large door opening with a pair of large hinged wooden doors. The east and west elevations feature deteriorated wood-framed windows with sliding or multi-lite casement windows and large doors made of wood or corrugated metal. The doorway on the east elevation is accessed by a shallow concrete ramp. The part of the west elevation ending in a gable features two large openings closed by pairs of chain link gates.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View NE, 6/22/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1920, according to historic aerials, images, and Sanborn maps.
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/9/2018
***P10. Survey Type:** (Describe)
Intensive pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Garage-Storage
***NRHP Status Code** 6Z

B1. Historic Name: Garage-Storage
B2. Common Name: Garage-Storage
B3. Original Use: Blacksmithy B4. Present Use: N/A
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 1286 was constructed in 1920. A 1932 Sanborn map of the property depicts LACO No. 1286 as an L-shaped building. A 1929 aerial of the property shows the same, L-shaped building. The south elevation of the building was slightly damaged by the arson which destroyed nearby LACO No. 1287 in 2017.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The building is located adjacent to LACO Nos. 1287 and 2492.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Garage-Storage (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 1286 was originally identified as a contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/9/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 1286 (P-19-189392) (continued from the BSO Record)

As utilitarian structure of degraded quality, the Garage-Storage does not appear to have a significant association with historic events or personages and is not an excellent example of a type or style of architecture or the work of a master architect. The structure is not a significant source of information associated with history or prehistory. Therefore, the Garage-Storage is not eligible as an individual resource under any of the applicable national, state, or local criteria and is not a contributor to the Rancho Los Amigos Historic District.

Additional Photographs

Garage-Storage (LACO No. 1286) (P-19-189392)



LACO No. 1286, partial west elevation of Garage-Storage, view to southeast (ESA June 22, 2017)



LACO No. 1286, partial west elevation of Garage-Storage, view to southeast (ESA June 22, 2017)



LACO No. 1286, north elevation of Garage-Storage, view to south (ESA June 22, 2017)



LACO No. 1286, partial west elevation of Garage-Storage, view to southeast (ESA June 22, 2017)



LACO No. 1286, partial east elevation of Garage-Storage, view to northeast (ESA June 22, 2017)



LACO No. 1286, partial east elevation of Garage-Storage, view to north (ESA June 22, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189404
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 5 ***Resource Name or #:** (Assigned by recorder) Garage
P1. Other Identifier: LACO No. 1379; Garage
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 1379 is located adjacent to the western boundary of the Rancho Los Amigos Historic District, attached to LACO No. 4121, Garage, to the east. The Garage is bound by Laurel Avenue/District boundary to the west and a paved courtyard with several metal utilitarian structures to the north (LACO Nos. 1267, 1464, 3348, and 4118). To the south of the Garage is a large open field and to the east is attached LACO No. 4121 and Juniper Street. The Garage is a single-story rectangular shaped utilitarian building with corrugated metal siding. The building features a metal saltbox roof with the larger slope south of the roofline. The shorter, steeper slope ends in an unboxed eave at the entirely open north elevation, which is supported by thin metal poles. The building's south elevation comprises corrugated metal with two boarded windows openings at the western edge. The west elevation has a single window opening. The east elevation comprises a much narrower, slightly taller structure which connects LACO No. 1379 to LACO No. 4121. The exposed interior features wooden rafters, concrete flooring, and wooden trusses on the walls.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View SE, 6/20/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
Post-1952 and pre-1963 according to historic aerials and images.
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/9/2018
***P10. Survey Type:** (Describe)
Intensive pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Garage
***NRHP Status Code** 6Z

B1. Historic Name: Garage
B2. Common Name: Garage
B3. Original Use: Garage B4. Present Use: N/A
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 1379 was constructed sometime after 1952 and before 1963. A 1963 aerial of the property shows the structure extant in its current location.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The structure is attached to LACO No. 4121.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Garage (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 1379 was originally identified as a contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/9/2018

(Sketch Map with north arrow required.)



(This space reserved for official comments.)

B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 1379 (P-19-189404) (continued from the BSO Record)

Previous evaluations identified the structure's construction date as Unknown (Post 1954). However, a historical aerial image from 1963 shows the Garage extant in its current location. This does not change its construction outside of the district's period of significance, which ends in 1952. Because it was constructed outside of the period of significance, it should be considered a non-contributor to the historic district. Furthermore, as utilitarian structure, the Garage does not appear to have a significant association with historic events or personages and is not an excellent example of a type or style of architecture or the work of a master architect. The structure is not a significant source of information associated with history or prehistory. Therefore, the Garage is not eligible as an individual resource under any of the applicable national, state, or local criteria and is not a contributor to the Rancho Los Amigos Historic District.

Additional Photographs

Garage (LACO No. 1379) (P-19-189404)



LACO No. 1379, west elevation of Garage, view to southeast (ESA June 20, 2017)



LACO No. 1379, interior of Garage, view to southeast (ESA June 20, 2017)



LACO No. 1379, north elevation of Garage, view to west (ESA June 20, 2017)



LACO No. 1379, north elevation of Garage showing connecting structure to LACO No. 4121, view to southwest (ESA June 20, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3D

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 4 ***Resource Name or #:** (Assigned by recorder) Garbage Can Room
P1. Other Identifier: LACO No. 3348; Garbage Can Room
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 3348 is located in the southwestern quadrant of the Rancho Los Amigos Historic District, adjacent to the western boundary. It is grouped with, but not oriented toward, LACO Nos. 1464 and 4118. The Garbage Can Room is bound by Laurel Avenue/the District boundary to the west, Bonita Street immediately to the north, LACO No. 4118 to the east, and LACO No. 1464 to the south. The Garbage Can Room is a single-story rectangular utilitarian building on a concrete pad supported by piers. It features a shingle gabled roof with wood clapboard siding in the gables and narrow eaves with hidden rafter tails. The building's north (primary) features a full-length loading dock and a pair of large, partially boarded wooden doors. The south (rear) elevation comprises fenestration which is entirely boarded. The west elevation has all fenestration boarded except for a pair of wooden doors elevated from the ground by concrete piers. The east elevation had entirely boarded fenestration.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building
***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



□ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View S, 6/20/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1951 according to historic aerials and images.
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/9/2018
***P10. Survey Type:** (Describe)
Intensive pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

State of California -- The Resources Agency Primary #
DEPARTMENT OF PARKS AND RECREATION HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Garbage Can Room
***NRHP Status Code** 3D
Page 2 **of** 4

B1. Historic Name: Garbage Can Room
B2. Common Name: Garbage Can Room
B3. Original Use: Garbage Can Room B4. Present Use: N/A
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 3348 was constructed in 1951. A definite alteration includes boarded fenestration on all elevations, done at an unknown date. A possible alteration is the removal of steps or a concrete loading dock on the west elevation, also removed at an unknown date.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The Garbage Can Room is grouped with, but not oriented toward, LACO Nos. 1464 and 4118.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Garbage Can Room (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 3348 was originally identified as a non-contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/9/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 3348 (continued from the BSO Record)

Because it was constructed within the period of significance and appears to represent a building type that contributed to the overall operation of Rancho Los Amigos, LACO No. 3348 appears to have a significant association with the operation of Rancho Los Amigos and is an excellent example of a type or style of architecture or the work of a master architect. The structure is a significant source of information associated with history or prehistory. Therefore, the Garbage Can Room is a contributor to the Rancho Los Amigos Historic District. It is not eligible as an individual resource under any of the applicable national, state, or local criteria.

Additional Photographs

Garbage Can Room (LACO No. 3348)



LACO No. 3348, east elevation of Garbage Can Room, view to west (ESA June 20, 2017)



LACO No. 3348, west elevation of Garbage Can Room, view to east (ESA June 20, 2017)



LACO No. 3348, west and south (rear) elevations of Garbage Can Room, view to northeast (ESA June 20, 2017)

State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #P-19-189404
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 5 ***Resource Name or #:** (Assigned by recorder) Garage
P1. Other Identifier: LACO No. 4121; Garage
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** South Gate (CA) **Date** _____ **T** 3 South ; **R** 12 West ; __ □ **of** __ □ **of Sec** __; ____**B.M.**
c. Address _____ City Downey Zip 90242
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 392669.04 mE/ 3754112.65 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN#: 6245-016-934

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LACO No. 4121 is located adjacent to the western boundary of the Rancho Los Amigos Historic District, attached to LACO No. 1379, Garage, to the west. The Garage is bound by Laurel Avenue/District boundary to the west, along with attached LACO No. 1379, and a paved courtyard with several metal utilitarian structures to the north (LACO Nos. 1267, 1464, 3348, and 4118). To the south of the Garage is a large open field and to the east is the courtyard of LACO No. 1266 and Juniper Street. The Garage is a single-story rectangular shaped utilitarian building with corrugated metal siding. The building features a metal saltbox roof with the larger slope south of the roofline. The shorter, steeper slope ends in an unboxed eave at the north elevation, which is supported by thin metal poles and has chain-link fences obstructing access into the otherwise open interior. The building's south and east elevations comprise corrugated metal siding. The west elevation comprises a much narrower, slightly taller structure which connects LACO No. 4121 to LACO No. 1379. The exposed interior features wooden rafters, concrete flooring, and wooden trusses on the walls.

***P3b. Resource Attributes:** (List attributes and codes) HP4. Ancillary Building

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:**
X Building □ Structure □ Object □ Site □ District ☒ Element of District □ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View SE, 6/20/2017
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
Post-1952 and pre-1963 according to historic aerials and images.
***P7. Owner and Address:**
Los Angeles County
500 W. Temple Street
Los Angeles, CA 90012
***P8. Recorded by:** (Name, affiliation, and address) Margarita Jerabek, Ph.D.
Environmental Science Associates
626 Wilshire Blvd. #1100
Los Angeles, CA 90017

***P9. Date Recorded:** 1/9/2018
***P10. Survey Type:** (Describe)
Intensive pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Margarita Jerabek, Ph.D., et al., ESA, *Rancho Los Amigos South Campus, County of Los Angeles, City of Downey, California: Historic District Analysis Report,* Prepared for the County of Los Angeles. Report currently in preparation.

***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
□Archaeological Record □District Record □Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Garage
***NRHP Status Code** 6Z

B1. Historic Name: Garage
B2. Common Name: Garage
B3. Original Use: Garage B4. Present Use: N/A
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
LACO No. 4121 was constructed sometime after 1952 and before 1963. A 1963 aerial of the property shows the structure extant in its current location.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The structure is attached to LACO No. 1379.

B9a. Architect: Unknown **b. Builder**: Los Angeles County
***B10. Significance: Theme** Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1887-1952)
Area Downey, Los Angeles County
Period of Significance 1888-1952 **Property Type** Garage (Ancillary Building) **Applicable Criteria** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
Based upon extensive research, it was determined that the District continues to remain eligible under National Register Criterion A and California Register Criterion 1 at the local level of significance. The Los Angeles County Poor Farm and its evolution into a long-term healthcare facility (Rancho Los Amigos) during the late nineteenth and early twentieth century reflect broader trends in medical history across the United States. The District's development over time illustrates changing approaches to healthcare and the treatment of Los Angeles County's indigent population. Furthermore, the District appears eligible under National Register Criterion C as a distinguishable entity whose components may lack individual distinction (i.e., a district). Consistent with the previous evaluation by Sapphos, it is recommended that the District's period of significance be extended to 1952, when the adjacent agricultural lands were subdivided for residential development, reflecting the completion of the subject property's transformation into a long-term healthcare facility. LACO No. 4121 was originally identified as a contributing structure to the Rancho Los Amigos Historic District.

B11. Additional Resource Attributes: (List attributes and codes) None
***B12. References:**
See Continuation Sheets.
B13. Remarks:
See Continuation Sheets
***B14. Evaluator:** Margarita Jerabek, Ph.D., et al., ESA
***Date of Evaluation:** 1/9/2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



B12. References (continued):

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Environmental Data Resources, Inc. (EDR), Sanborn Map Collection, Downey, 1932.

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. July 15, 2011.

University of California, Los Angeles' Benjamin and Gladys Thomas Air Photo Archive.

University of Southern California Libraries Special Collections.

*B10. Significance (continued)

LACO No. 4121 (P-19-189404) (continued from the BSO Record)

Previous evaluations identified the structure's construction date as Unknown (Post 1954). However, a historical aerial image from 1963 shows the Garage extant in its current location. This does not change its construction outside of the district's period of significance, which ends in 1952. Because it was constructed outside of the period of significance, it should be considered a non-contributor to the historic district. Furthermore, as utilitarian structure, the Garage does not appear to have a significant association with historic events or personages and is not an excellent example of a type or style of architecture or the work of a master architect. The structure is not a significant source of information associated with history or prehistory. Therefore, the Garage is not eligible as an individual resource under any of the applicable national, state, or local criteria and is not a contributor to the Rancho Los Amigos Historic District.

Additional Photographs

Garage (LACO No. 4121) (P-19-189404)



LACO No. 4121, north elevation of Garage, view to southeast (ESA June 20, 2017)



LACO No. 4121, north elevation of Garage showing connecting structure to LACO No. 1379, view to southwest (ESA June 20, 2017)

P3a. Updated Description:

The Staff Cottage (LACO No. 1121) is located in the northwest area of the South Campus, immediately west of Hawthorne Avenue and south of Flores Street. It is a rectangular one-story building with wood clapboard siding and a gable roof with cross-gable porches. Its adjacent landscape consists mostly of sparse vegetation, with trees near the east elevation. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include the boarding of most windows. Its condition is degraded.

***B6. Updated Construction History:**

No building permits or original architectural drawings were found for LACO No. 1121. It was constructed in 1921.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

The Staff Cottage (LACO No. 1121) was constructed in 1921 as living quarters for staff of the County Poor Farm who worked in the patient ward buildings. ESA evaluated LACO No. 1121 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1121 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1121 retains sufficient integrity to convey its original use as staff cottages. Though degraded, it is still intact and, in its present condition, retains integrity of location, feeling, and association. It does not retain integrity of setting due to the removal of the additional rows of staff cottages to the northeast sometime in the 1980s when the County rezoned former Rancho Los Amigos land and sold it for commercial development. It also does retain integrity of design, materials, and workmanship due to the alterations and deterioration it has sustained, as recorded by Sapphos in 2007-2011 and ESA in 2017. LACO No. 1121 retains sufficient integrity, however, to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1121 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1121 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1121* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Staff Cottage (LACO No. 1121)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West Elevation of LACO No. 1121, View Facing Southeast (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1121, View Facing Northeast (ESA, June 21, 2017)



Overview of East Elevation of LACO No. 1121, View Facing North (ESA, June 21, 2017)



Overview of South Elevation of LACO No. 1121, View Facing Northeast (ESA, June 21, 2017)

P3a. Updated Description:

The Staff Cottage (LACO No. 1123) is located in the south central area of the South Campus west of Hawthorne Avenue and south of Flores Street. It is a rectangular one-story building with wood clapboard siding and a gable roof with cross-gable porches. Its adjacent landscape consists mostly of sparse vegetation, with trees near the west elevation. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include the boarding of most windows. Its condition is degraded.

***B6. Updated Construction History:**

No building permits or original architectural drawings were found for LACO No. 1123. It was constructed in 1924. Condition issues include deteriorated wood, cracking paint, broken windows, and failing brackets on the porch canopy at the east elevation.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

The Staff Cottage (LACO No. 1123) was constructed in 1924 as living quarters for staff of the County Poor Farm who worked in the patient ward buildings. . ESA evaluated LACO No. 1123 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1123 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1123 retains sufficient integrity to convey its original use as staff cottages. Though degraded, it is still intact and, in its present condition, retains integrity of location, feeling, and association. It does not retain integrity of setting due to the removal of the additional rows of staff cottages to the northeast sometime in the 1980s when the County rezoned former Rancho Los Amigos land and sold it for commercial development. It also does retain integrity of design, materials, and workmanship due to the alterations and deterioration it has sustained, as recorded by Sapphos in 2007-2011 and ESA in 2017. LACO No. 1123 retains sufficient integrity, however, to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1123 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1123 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO No. 1123* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Staff Cottage (LACO No. 1123)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



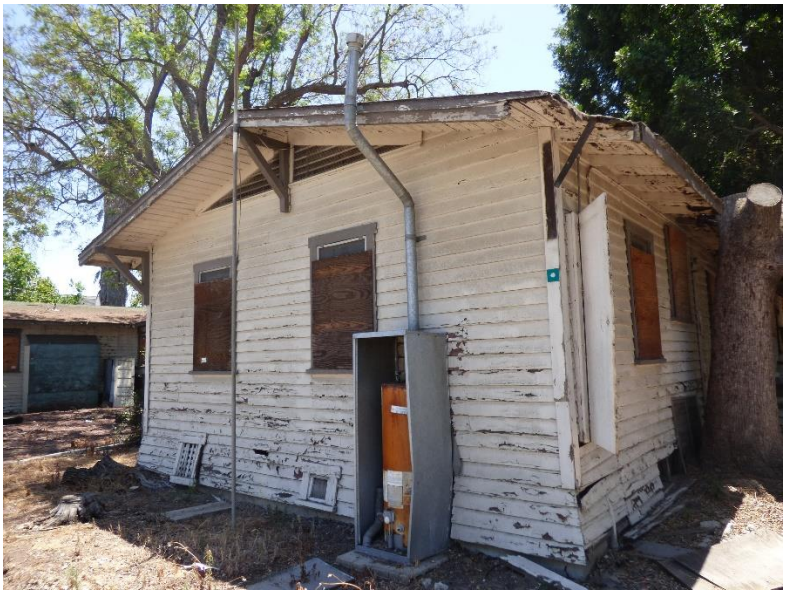
Overview of East Elevation of LACO No. 1123, View Facing Northwest (ESA, June 21, 2017)



Overview of South Elevation of LACO No. 1123, View Facing North (ESA, June 21, 2017)



Overview of West Elevation of LACO No. 1123, View Facing Northeast (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1123, View Facing Southwest (ESA, June 21, 2017)

P3a. Updated Description:

The Dairyman's House (LACO No. 1137) is located in the southeast area of the South Campus in a grassy area just north of Bonita Street. It is a rectangular, one-story building with a partially enclosed porch, clapboard siding, and a chimney at the east elevation. Its condition is degraded. Moderate changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include most windows boarded, portions of the roof missing, fascia boards failing, and holes in the ceiling. The remains of a pulley system are present at the north elevation. There is severe deterioration at the rear (east) kitchen addition. Overgrowth of adjacent plants has affected some of the northern half of the building.

LACO No. 1179 (P-19-189340)
The Dairyman's Garage (LACO No. 1179) is a utilitarian wood structure constructed to support the operations of the Dairyman's House (LACO No. 1137). It is located immediately to the northeast of LACO No. 1137. It is in degraded condition. Minor changes as compared with the 2007-2011 survey include boarded window openings, deteriorated siding, and a deteriorating roof.

***B6. Updated Construction History:**

No building permits or original architectural drawings were found for LACO No. 1137. It was constructed in 1907. There appear to have been multiple reroofs, done at unknown dates.

LACO No. 1179 (P-19-189340)
No building permits or original architectural drawings were found for LACO No. 1179. The Dairyman's Garage (LACO No. 1179) was built in 1926. The only alteration appears to be a reroof done at an unknown date.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

The Dairyman's House (LACO No. 1137) was constructed in 1907 as a staff residence for various staff members of the County Poor Farm. It continued to serve as this until it was converted to storage for the landscaping department in 1970. ESA evaluated LACO No. 1137 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1137 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1137 retains sufficient integrity to convey its original use as a residence for staff. It is still intact and, in its current condition, retains integrity of location, setting, feeling, and association. It does not retain integrity of design, materials, and workmanship due to its degraded condition. LACO No. 1137 retains sufficient integrity, however, to

convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1137 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1137 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

LACO No. 1179 (P-19-189340)

The Dairyman's Garage (LACO No. 1179) was constructed in 1926 to serve as vehicle and equipment storage for the Dairyman's House (LACO No. 1137). ESA evaluated LACO No. 1179 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1179 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1179 retains sufficient integrity to convey its original use as a garage for the staff member living at the Dairyman's House. It is still intact and, in its current condition, retains integrity of location, setting, feeling, and association. It does not retain integrity of design, materials, and workmanship due to its degraded condition. LACO No. 1179 retains sufficient integrity, however, to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1179 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1179 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1137* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Dairyman's House (LACO No. 1137)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

LACO No. 1179 (P-19-189340)
1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1179* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Dairyman's Garage (LACO No. 1179)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West (Primary) Elevation of LACO No. 1137, View Facing East (ESA, June 22, 2017)



Overview of North Elevation of LACO No. 1137, View Facing South (ESA, June 22, 2017)



Overview of East Elevation of LACO No. 1137, View Facing Northwest (ESA, June 22, 2017)



Overview of South Elevation of LACO No. 1137, View Facing North (ESA, June 22, 2017)

Dairyman's Garage (LACO No. 1179) (P-19-189340)



Overview of South (Primary) and West Elevations of LACO No. 1179, View Facing Northeast (ESA, June 22, 2017)



Overview of East and South Elevations of LACO No. 1179, View Facing Southwest (ESA, June 22, 2017)

P3a. Updated Description:

General Ward 30 (LACO No. 1184) is located in the central area of the South Campus, immediately west of Erickson Avenue. It is the first and northernmost of a row of five nearly identical buildings that run along Erickson Avenue. It is a rectangular two-story building of reinforced concrete with stucco siding and a flat roof. To the north, its adjacent landscape consists the grassy area anchored by the Moreton Bay Fig Tree while to the east and south it consists of grass and shrubbery. A one-story concrete outbuilding sits adjacent to the northeast corner of LACO No. 1184. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include overgrowth of vines on its west elevation and part of its north elevation. Its condition is degraded.

***B6. Updated Construction History:**

No building permits were found for LACO No. 1184. Original architectural drawings indicate it was constructed in circa 1915, which differs from the construction date of 1913 that the 2007-2011 survey identified. Further changes identified in original architectural drawings include new freight elevator alterations and equipment from 1953. Air conditioning units in some windows were added at unknown dates. Lighting fixtures are non-original.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

General Ward 30 (LACO No. 1184) was constructed in circa 1915 to house patients of the Poor Farm. It was converted into a pharmacy building in the 1930s, then office and storage space until circa the 1980s and 1990s, when it was abandoned along with much of the rest of the South Campus. ESA evaluated LACO No. 1184 under the following historical themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1184 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1184 retains sufficient integrity to convey its original use as living quarters for patients of the Poor Farm. Though degraded, it is still intact and, in its present condition, retains integrity of location, setting, design materials, workmanship, feeling, and association. LACO No. 1184 retains sufficient integrity to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1184 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1184 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1184* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *General Ward 30 (LACO No. 1184)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West Elevation of LACO No. 1184, View Facing Northwest (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1184, View Facing South (ESA, June 21, 2017)

CONTINUATION SHEET

Property Name: General Ward 30, LACO No. 1184
Page 4 of 4

*Recorded by: Margarita Jerabek, et al., ESA *Date: 9/12/2017 ☐Continuation ☒Update



Overview of East Elevation of LACO No. 1184, View Facing Southwest (ESA, June 21, 2017)



Overview of South Elevation of LACO No. 1184, View Facing Northwest (ESA, June 21, 2017)

P3a. Updated Description:

General Ward 40 (LACO No. 1185) is located in the central area of the South Campus, immediately west of Erickson Avenue. It is the second and of a row of five nearly identical buildings that run along Erickson Avenue. It is a rectangular two-story building of reinforced concrete with stucco siding and a flat roof. Its adjacent landscape consists of the grassy and shrubbery linking it to its neighbors. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include the presence of square ceramic tiles underneath damaged portions of stucco on the south elevation.

***B6. Updated Construction History:**

No building permits were found for LACO No. 1185. Original architectural drawings indicate it was constructed in circa 1915, which differs from the construction date of 1913 that the 2007-2011 survey identified. Further changes identified in original architectural drawings include new freight elevator alterations and equipment from 1953. Air conditioning units in some windows were added at unknown dates. Lighting fixtures are non-original.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

General Ward 40 (LACO No. 1185) was constructed in circa 1915 to house patients of the Poor Farm. It also functioned as a wheelchair repair shop, then office and storage space until circa the 1980s and 1990s, when it was abandoned along with much of the rest of the South Campus. ESA evaluated LACO No. 1185 under the following historical themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1185 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1185 retains sufficient integrity to convey its original use as living quarters for patients of the Poor Farm. Though degraded, it is still intact and, in its present condition, retains integrity of location, setting, design materials, workmanship, feeling, and association. LACO No. 1185 retains sufficient integrity to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1185 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1185 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1185* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *General Ward 40 (LACO No. 1185)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West Elevation of LACO No. 1185, View Facing Northwest (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1185, View Facing Southwest (ESA, June 21, 2017)



Overview of East Elevation of LACO No. 1185, View Facing Southwest (ESA, June 21, 2017)



Overview of South Elevation of LACO No. 1185, View Facing Northwest (ESA, June 21, 2017)

CONTINUATION SHEET

Property Name: General Ward 40, LACO No. 1185

*Recorded by: Margarita Jerabek, et al., ESA *Date: 9/12/2017 ☐Continuation ☒Update



Detail of South Elevation of LACO No. 1185, View Facing North (ESA, June 21, 2017)

P3a. Updated Description:

General Ward 50 (LACO No. 1186) is located in the central area of the South Campus, immediately west of Erickson Avenue. It is the third patient ward in a row of five nearly identical buildings that run along Erickson Avenue. It is a rectangular two-story building of reinforced concrete with stucco siding and a flat roof. To the north, its adjacent landscape consists the grassy area anchored by the Moreton Bay Fig Tree while to the east and south it consists of grass and shrubbery. A one-story concrete outbuilding sits adjacent to the northeast corner of LACO No. 1186. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include deterioration of stucco to reveal ceramic underneath. Its condition is degraded.

***B6. Updated Construction History:**

No building permits were found for LACO No. 1186. Original architectural drawings indicate it was constructed in circa 1915, which differs from the construction date of 1913 that the 2007-2011 survey identified. Further changes identified in original architectural drawings include new freight elevator alterations and equipment from 1953. Air conditioning units in some windows were added at unknown dates. Lighting fixtures are non-original.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

General Ward 50 (LACO No. 1186) was constructed in circa 1915 to house patients of the Poor Farm. It was converted into a pharmacy building in the 1930s, then office and storage space until circa the 1980s and 1990s, when it was abandoned along with much of the rest of the South Campus. ESA evaluated LACO No. 1186 under the following historical themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1186 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1186 retains sufficient integrity to convey its original use as living quarters for patients of the Poor Farm. Though degraded, it is still intact and, in its present condition, retains integrity of location, setting, design materials, workmanship, feeling, and association. LACO No. 1186 retains sufficient integrity to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1186 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1186 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1186* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *General Ward 50 (LACO No. 1186)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West Elevation of LACO No. 1186, View Facing Northwest (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1186, View Facing Southwest (ESA, June 21, 2017)



Overview of East Elevation of LACO No. 1186, View Facing Southwest (ESA, June 21, 2017)



Overview of South Elevation of LACO No. 1186, View Facing Northeast (ESA, June 21, 2017)

CONTINUATION SHEET

Property Name: General Ward 50, LACO No. 1186

*Recorded by: Margarita Jerabek, et al., ESA *Date: 9/12/2017 ☐Continuation ☒Update



Detail of South Elevation of LACO No. 1186, View Facing North (ESA, June 21, 2017)

P3a. Updated Description:

General Ward 60 (LACO No. 1187) is located in the central area of the South Campus, immediately west of Erickson Avenue. It is the fourth patient ward in a row of five nearly identical buildings that run along Erickson Avenue. It is a rectangular two-story building of reinforced concrete with stucco siding and a flat roof. Its adjacent landscape consists of grass and shrubbery. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include overgrowth of vines on its west elevation and part of its north elevation. Its condition is degraded.

***B6. Updated Construction History:**

No building permits were found for LACO No. 1187. Constructed in 1926, LACO No. 1187 was one of the later additions to the grouping of general wards along Erickson Avenue. No major alterations are apparent but air conditioning units were added in some windows at unknown dates. Lighting fixtures are non-original.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

General Ward 60 (LACO No. 1187) was constructed in circa 1926 to house patients of the Poor Farm. ESA evaluated LACO No. 1187 under the following historical themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1187 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1187 retains sufficient integrity to convey its original use as living quarters for patients of the Poor Farm. Though degraded, it is still intact and, in its present condition, retains integrity of location, setting, design materials, workmanship, feeling, and association. LACO No. 1187 retains sufficient integrity to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1187 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1187 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1184* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *General Ward 30 (LACO No. 1184)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West Elevation of LACO No. 1187, View Facing Northeast (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1187, View Facing Southwest (ESA, June 21, 2017)



Overview of East and South Elevations of LACO No. 1187, View Facing Northwest (ESA, June 21, 2017)



Overview of South and West Elevations of LACO No. 1187, View Facing Northeast (ESA, June 21, 2017)

P3a. Updated Description:

General Ward 70 (LACO No. 1188) is located in the central area of the South Campus, immediately west of Erickson Avenue. It is the last and southernmost of a row of five nearly identical buildings that run along Erickson Avenue. It is a rectangular two-story building of reinforced concrete with stucco siding and a flat roof. LACO No. 1188 is separated from the other four similar patient wards by a small road adjacent to its north elevation. Its associated landscape consists of grass and shrubbery. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include overgrowth of vines on its west elevation and part of its north elevation. Its condition is degraded.

***B6. Updated Construction History:**

No building permits were found for LACO No. 1188. The building was constructed in 1928 and was the last of the grouping to be built. Air conditioning units in some windows were added at unknown dates. Lighting fixtures are non-original.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

General Ward 30 (LACO No. 1188) was constructed in circa 1928 to house patients of the Poor Farm. ESA evaluated LACO No. 1188 under the following historical themes: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1188 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1188 retains sufficient integrity to convey its original use as living quarters for patients of the Poor Farm. Though degraded, it is still intact and, in its present condition, retains integrity of location, setting, design materials, workmanship, feeling, and association. LACO No. 1188 retains sufficient integrity to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1188 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1188 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1184* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *General Ward 30 (LACO No. 1184)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of West Elevation of LACO No. 1188, View Facing Northeast (ESA, June 21, 2017)



Overview of North Elevation of LACO No. 1188, View Facing Southwest (ESA, June 21, 2017)



Overview of East Elevation of LACO No. 1188, View Facing Northwest (ESA, June 21, 2017)



Overview of South Elevation of LACO No. 1188, View Facing Northwest (ESA, June 21, 2017)

P3a. Updated Description:

The Toilet Building (LACO No. 1256) is located in the south central area of the South Campus west of Erickson Avenue and northwest of the intersection of Erickson Avenue and Aliso Street. It is a square, one-story building with stucco siding and a flat roof. It is set on a concrete pad in a grassy area, with a concrete pathway to adjacent Erickson Avenue at its east elevation. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include re-boarded entrances and windows in October 2011.

***B6. Updated Construction History:**

No building permits or original architectural drawings were found for LACO No. 1256. It was constructed in 1925.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

The Toilet Building (LACO No. 1256) was constructed in circa 1925 as restrooms for patients and staff of the County Poor Farm, which it continued to serve as until it was abandoned along with most of the rest of the South Campus in the 1980s and 1990s in favor of the North Campus. ESA evaluated LACO No. 1256 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1256 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1256 retains sufficient integrity to convey its original use as a restroom facility. It is still intact and, in its present condition, retains integrity of location, design, materials, workmanship, feeling, and association. It does not retain integrity of setting due to the addition of General Ward 70 (LACO No. 1188) to the northeast and removal and addition of landscaping features since the period of significance, especially trees. LACO No. 1256 retains sufficient integrity, however, to convey its historical associations with the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1256 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1256 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1256* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Toilet Building (LACO No. 1256)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of East (Primary) Elevation of LACO No. 1256, View Facing Northwest (ESA, June 20, 2017)



Overview of South Elevation of LACO No. 1256, View Facing North (ESA, June 20, 2017)

CONTINUATION SHEET

Property Name: Brooder House/Vivarium Annex, LACO No. 1335

*Recorded by: Margarita Jerabek, et al., ESA *Date: 9/7/2017 ☐Continuation ☒Update



Overview of West Elevation of LACO No. 1256, View Facing East (ESA, June 20, 2017)



Overview of South Elevation of LACO No. 1256, View Facing North (ESA, June 20, 2017)

P3a. Updated Description

Constructed of wood frame on a circular concrete foundation, LACO No. 1312 is a Wood Vernacular style utilitarian structure. It is oriented from northeast to southwest, and is located in the northern portion of the courtyard of the Men's Psychiatric Ward (LACO No. 1205). It has a rectangular floor plan consisting of one floor divided into two three spaces: on either end of the building are areas enclosed by mesh wire, with a central transitionary portion enclosed by wood walls with entrances on either end. LACO No. 1312 has a moderately-pitched, front-gabled roof with overhanging eaves and exposed rafter tails capped by a fascia. The single entrance consists of a wire mesh door at the center of the south elevation. LACO No. 1312's condition is deteriorated. Landscape surrounding LACO No. 1312 consists of mature trees and grass. A substantial change observed in June 2017 as compared with the 2010 survey is that the top half of the entrance door is missing.

*B6. **Updated Construction History**

No building permits or original architectural drawings were found for LACO No. 1312. Alterations as they appear from historic photographs and ESA's 2017 survey include replacement of original roof materials with composition shingles; painted and/or replaced siding; and the top half of the entrance door is missing.

*B10. **Updated Significance**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

LACO No. 1312 was constructed in 1888 as an aviary to calm "inmates" by exposing them to nature. ESA evaluated LACO No. 1312 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1988-1952). Based upon its date of construction and building type, LACO No. 1312 appears significant both for its association with the Los Angeles County Poor Farm (1888-1906) era and the Development of Rancho Los Amigos (1907-1932) era. It was built in 1888 in the central court of the original three buildings of the Poor Farm, near where the Auditorium (LACO No. 1261) is currently located. It was relocated in c. 1924 to its present location in the courtyard of LACO No. 1205 to provide a healing effect to male psychiatric patients, reflecting the transition of the farm to a hospital. LACO No. 1312 retains sufficient integrity to convey its original use as an aviary to sooth "inmates" and later psychiatric patients by exposing them to nature. LACO No. 1312 is still intact and, in its present condition, retains integrity of location. Its integrity of setting, design, materials, workmanship, feeling, and association are deteriorated due to its advanced age and material alterations such as replaced roofing and siding. However, the LACO No. 1312 retains sufficient integrity to convey its historical associations with the development of the poor farm at the property as well as the transition of the property from a poor farm to long-term care facility. Therefore, ESA recommends that the eligibility of LACO No. 1312 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1312 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *Aviary* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Aviary (LACO No. 1312)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of South (Primary) Elevation of LACO No. 1312, View Facing Northeast (ESA, June 2017)



Overview of South (Primary) and East Elevations of LACO No. 1312, View Facing Northwest (ESA, June 2017)

CONTINUATION SHEET

Property Name: Aviary; Monkey House (Aviary), LACO No. 1312

*Recorded by: Margarita Jerabek, ESA *Date: 9/1/2017 ☐Continuation ☒Update



Overview of East Elevation of LACO No. 1321, View Facing West (ESA, June 2017)



Overview of North Elevation of LACO No. 1321, View facing Southeast (ESA, June 2017)

CONTINUATION SHEET

Property Name: Aviary; Monkey House (Aviary), LACO No. 1312

*Recorded by: Margarita Jerabek, ESA *Date: 9/1/2017 ☐Continuation ☒Update



Overview of West Elevation of LACO No. 1312, View Facing East (ESA, June 2017)

P3a. Updated Description:

The Brooder House/Vivarium Annex (LACO No. 1335) is located in the open, southwest area of the South Campus west of Juniper Street and north of Aliso Street. It is a rectangular, one-story, building made of unreinforced brick walls and a gable roof. It is set in a mostly hardscape area, with remains of concrete channels at its north and south elevations attesting to its former role as a poultry building. Minor changes were observed in the 2017 survey as compared with the 2007-2011 survey. These changes include boarded entrances and windows on both the building and detached shed (where one of the two openings is boarded), metal fence posts in the west, east, and south areas adjacent to the building, and the removal of an electrical connection to the shed from the adjacent electric power pole. Formerly adjacent structures Vivarium (LACO No. 1334) and Shed (LACO No. 1333) are no longer extant.

***B6. Updated Construction History:**

No building permits or original architectural drawings were found for LACO No. 1335. Examination of aerial photographs appears to date its construction to 1926 or earlier, three years earlier than identified in the 2007-2011 survey. Associated structures Vivarium (LACO No. 1334) and Shed (LACO No. 1333) are no longer extant, having been demolished sometime after 1972 in line with the end of farming operations in the 1950s and the movement of activity to the North Campus in the 1980s and 1990s.

***B10. Updated Significance:**

A resource must have both significance and integrity to be considered potentially eligible as a historical resource. With regard to district contribution, relative importance of location and visual prominence, date of construction, historic function, architectural merit and spatial relationships are also considered.

The Brooder House/Vivarium Annex (LACO No. 1335) was constructed in circa 1926 as an annex to the Vivarium. Its purpose was to house hens and incubate eggs. ESA evaluated LACO No. 1335 under the following historical theme: Development of the Los Angeles County Poor Farm and Rancho Los Amigos (1888-1952). Based upon its date of construction and building type, LACO No. 1335 appears significant for its association with the Development of Rancho Los Amigos (1907-1932) era. LACO No. 1335 retains sufficient integrity to convey its original use as an integral part of the Rancho's poultry operations. Despite alterations, it is still intact and, in its present condition, retains integrity of location, design, materials, workmanship, feeling, and association. It does not retain integrity of setting because it the only remaining building or structure left in the large southwestern portion of the South Campus that was dedicated to poultry operations. LACO No. 1335 retains sufficient integrity to convey its historical associations with the transition of the property from a poor farm to long-term care facility that had to supply its own food and sell surplus to maintain a profit. Therefore, ESA recommends that the eligibility of LACO No. 1335 remain unchanged and that it continue to be considered a contributor to the District. ESA recommends that LACO No. 1335 retain its existing NRHP status code of 2D2, noting it as a contributor to the District.

B12. Updated References:

County of Los Angeles, Rancho Los Amigos archives

Downey Historical Society Archives

Fliedner, Colleen Adair. Rancho Los Amigos Medical Center Centennial: 1888-1988. Downey, CA: Rancho Los Amigo Medical Center, 1990.

McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. July 26, 1995.

Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. March 19, 2004.

Rancho Los Amigos Hospital Records 0407, University of Southern California (USC) Libraries Special Collections.

Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

B13. Remarks (continued):

This is an update to three previous surveys:

1. Resource Identifier: *Rancho Los Amigos Medical Center* CHR Status Code: *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

- Criterion A/1. Eligibility: Contributor

2. Resource Identifier: *LACO #1312* NR Status Code: *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

- Criterion C/3. Eligibility: Not Significant

3. Resource Identifier: *Brooder House/Vivarium Annex (LACO No. 1335)* CHR Status Code: *2D2*
Sapphos Environmental, Inc. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles. June 2010.

- Criterion A/1. Eligibility: Contributor

Updated Photographs



Overview of East (Primary) and South Elevations of LACO No. 1335, View Facing Northwest (ESA, June 20, 2017)



Overview of West and North Elevations of LACO No. 1335, View Facing Southeast (ESA, June 20, 2017)

Appendix E

Previous Evaluation by Historic Resources Group, 1995

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # 027-9102
HRI # _____
Trinomial _____
NRHP Status Code 2S2

Page 1 of 68

Other Listings _____
Review Code _____ Reviewer Christy J. McAvoy Date _____

P1. Resource Identifier: RANCHO LOS AMIGOS MEDICAL CENTER
P2. Location: a. County Los Angeles and (Address and/or UTM Coordinates. Attach Location Map as required.)
b. Address 7601 E IMPERIAL HWY
City Downey Zip _____
c. UTM: USGS Quad _____ (7.5'/15') Date _____; Zone ____/ _____ mE/ _____ mN
d. Other Location Data (e.g., parcel #, legal description, directions to resources, additional UTMs, etc., when appropriate):

P3. Description Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries):

P4. Resources Present: ☐ Building ☐ Structure ☐ Object ☐ Site ☒ District ☐ Element of District

P5. Photograph or Drawing (photograph required for buildings, structures, and objects.)

P6. Date Constructed/Age:
☐ Prehistoric ☒ Historic ☐ Both
1888-1945

P7. Owner and Address:

P8. Recorded by (Name, affiliation and address): Christy J. McAvoy
Historic Resources Group
1728 N. Whitley Ave
Los Angeles, CA 90028

P9. Date Recorded: 7/26/95

P10. Type of Survey: ☐ Intensive
☐ Reconnaissance ☒ Other
Describe: Survey of earthquake damaged properties for purposes of Section 106 Review.

P11. Report Citation (Provide full citation or enter "none."): _____
1994 Northridge Earthquake Project Review

Attachments: ☐ NONE ☒ Map Sheet ☒ Continuation Sheet ☐ Building, Structure, and Object Record
☒ District Record ☐ Linear Resource Record ☐ Other (List): _____

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

DISTRICT RECORD

Primary # _____
HRI # _____
Trinomial _____

D1. Resource Identifier: Rancho Los Amigos Medical Center

D2. Historic Name: Los Angeles County Farm.

D3. Common Name: Rancho Los Amigos Medical Center

D4. Detailed Description (Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district.): This district consists of a portion of an hospital campus located in the city of Downey, California. A number of bungalows, hospital wards, infirmaries, and support buildings including a train station, a print shop, mechanical shops and vocational training buildings, and outbuildings, form the historic core of the hospital campus. The district also contains a number of mature trees, particularly eucalyptus, a Moreton Bay Fig tree, camphor and deodar trees which contribute to the historic character of the site. Building styles include turn-of-the century-era vernacular wards and support buildings, Craftsman residences and wards, Spanish Colonial Revival offices and hospital buildings, and functional outbuildings and storage. The oldest building still (See Continuation Sheet, Page 2.)

D5. Boundary Description (Describe limits of district and attach map showing boundary and district elements.): Boundaries of the district were established by outlining the concentration of 50-year old buildings which form the historic core of the hospital campus.

D6. Boundary Justification: The district boundaries incorporate a group of historic hospital buildings which are over 50 years old and retain a sense of time and place.

D7. District Attributes (List major attributes and codes.): HP--41 Hospital

D8. Significance: Theme Public Poor Farm, Public Hospital Area Los Angeles County
Period of Significance 1888-1945 Applicable Criteria A
(Discuss district's importance in terms of its historical context as defined by theme, period of significance, and geographic scope. Also address the integrity of the district as a whole.)The district at Rancho Los Amigos Medical Center consists of the historic core of the hospital campus and is significant under National Register Criterion A for its association with the turn-of-the-century health care of Los Angeles County's indigent population and for its later treatment of those in Los Angeles County with chronic illnesses, both mental and physical.

The history of the Los Angeles County Farm and of its later incarnations as Rancho Los Amigos Hospital and Rancho Los Amigos Medical Center begins even before its founding in 1888. On September 5, 1876, a railroad tunnel connecting Southern California to the rest of the nation was opened, facilitating substantial (See Continuation Sheet Page 6.)

D9. References (Give full citations including the names and addresses of any informants, where possible.):

Fliedner, Colleen Adair. *Centennial Rancho Los Amigos Medical Center: 1888-1988.* Downey, CA: Rancho Los Amigos Medical Center, 1990.

D10. Evaluator: Christy Johnson McAvoy Date: 7/26/95
Affiliation and Address: Historic Resources Group, 1728 N. Whitley Avenue, Hollywood, CA 90028

D4 DESCRIPTION CONTINUED

standing at the site is an aviary dating from 1888 and currently located in the courtyard of Building 304. This aviary is still in use as such and was originally located in the courtyard of the original Men's and Women's Wards. When surveyed in February of 1995, the historic campus core included a total of 102 buildings. Of these 102 buildings, 76 contribute to the character of the district, 23 do not contribute to the character of the district, two were not surveyed, and one was demolished prior to survey.

To the greatest extent possible, building names and dates of construction have been paired with Los Angeles County Building Numbers (LACO #). Where discrepancies do occur, the attached map is the most accurate indicator of contributing and non-contributing buildings and features.

Contributing Buildings and Features

	Building/Feature Name(s)	LACO #	Date Constructed
1	Aviary (in courtyard of Bldg 304)	unk.	1888
2	Moreton Bay Fig Tree	n/a	c. 1900 (planted)
3	Residence	1137	1907
4	Train Station, Supply Warehouse	1352	1907
5	Computer Center	1254	1908
6	Pest Control	1287	1909
7	Print Shop and Record Storage	1262	1911
8	Mechanical Shop	1302	1911
9	Harriman House	1101	1913
10	Building 30	1184	1913
11	Building 40, Ward 40	1185	1913
12	Receiving	1263	1913
13	Lock Shop, (formerly the Morgue)	1276	1913
14	Steel Tank and Tower	1301	1913
15	Building 50, Ward 50	1186	1916
16	Building 303 and 304	1205	1916
17	Open Shelter	1243	1916
18	Toilet Room	1244	1916
19	Open Shelter	1251	1916
20	Garage	1177	1917
21	Shops, Master Mechanic, Carpenter, Paint	1275	1917
22	Building 301 and 302	1203	1920
23	Garage, Storage	1286	1920
24	Office Suite	1121	1921
25	Building 201, General Service	1189	1922
26	Building 202, Housekeeping	1190	1922
27	Building 203, Hospital Purchasing	1191	1922
28	Building 204, Snack Bar #1	1192	1922
29	Building 20, Storage	1260	1922

(See Continuation Sheet, Page 4.)

D4 DESCRIPTION CONTINUED

Contributing Buildings and Features (Continued)

Building/Feature Name(s)	LACO#	Date Constructed
Trunk Storage	1283	1923
Building 205, Rec. and Vol. Service	1193	1924
Building 206, Dietary Office	1194	1924
Building 207, Storage 207	1195	1924
Building 208, Classroom 208	1196	1924
Residence	1123	1924
Garage and Storage	1278	1924
Work Prep. Center No. 2, Vocational Training	1207	1925
Building 305 and 306, Drug Abuse Rehab. Center	1202	1925
Building 307 and 308, Ward 307 and 308	1204	1925
Toilet Room	1247 (1249)	1925
Carpenter's Office	1277	1925
Office	1279	1925
Storage	1300	1925
Building 209, Storage 209	1197	1926
Building 210, Nursing Education	1198	1926
Building 211, Histopathology Lab	1199	1926
Building 212, Neuro. Research Lab	1200	1926
Building 214, Vocational Service	1201	1926
Building 60, Ward 60	1187	1926
Business Services	1100	1926
Garage	1179	1926
Restroom, Landscape Storage	1256	1926
Vivarium	1334	1926
Main Kitchen	1295	1927
Building 70, Ward 70	1188	1928
Casa Consuelo	1238	1928
Auditorium	1261	1928
Garage, Storage	1280	1928
Vivarium Annex	1335	1929
Auto Shed	1379	1929
Garage, Shed	4118	1929
Auto Shed	4121	1929
Volunteer Service	1239	1930
Shelter	1240	1930
Shelter	1246	1930
Shed	1272	1930
Wheelchair Repair, Sign and Locker Room	1259	1931
Shed	1333	1931
Women's Gymnasium	1241	1932

(See Continuation Sheet, Page 5)

D4 DESCRIPTION CONTINUED

Contributing Buildings and Features (Continued)

	Building/Feature Name(s)	LACO #	Date Constructed
69	Snack Bar #3	1245	1932
70	Bonita Hall, Prosthetic Shop	1264	1932
2	Garage	1268	1932
3	Storage Shed	1270	1932
4	Tool House	1356	1936
5	Landscape Office, Nursery Office	1357	1938
6	Lumber Shed	~~954~~	1942
7	Shelter (near Morton Bay Fig)	unk.	unk. (1265?)
80	Smoke Stack	unk.	unk.

Non-Contributing Buildings

	Building/Feature Name(s)	LACO #	Date Constructed
1	Crafts Center, Amigos Hall	1266	1928
2	Transportation Office	1267	1930
3	Pump House	1292	1932
4	Vocational Training	589	1941
5	Vocational Training	590	1941
6	Shed	1464	1945
7	Shed, Men's Gymnasium	2434	1949
8	Shed	2435	1949
9	Shed	2436	1949
10	Shed	2437	1949
11	Post Office	2677	1949
12	Garbage Can Room	3348	1951
13	Shelter	1290	1952
14	Prosthetic Shop	3390	1953
15	Loading Dock	3820	1954
16	200,000 Gallon Water Tank	5547	1966
17	Steam Plant	5548	1966
18	Water Tanks	1284, 1374, 1373	unk.
19	Shed	2492	unk.
20	Work Prep. Center #1	5750	unk.
21	Credit Union	unk.	unk. > not mapped
22	Butler Building	unk.	unk.

Not Surveyed

Building/Feature Name(s)	LACO #	Date Constructed
Greenhouse	1353	unk.

(See Continuation Sheet, Page 6)

D4 DESCRIPTION CONTINUED

Not Survey (Continued)

Building/Feature Name(s)	LACO #	Date Constructed
unk.	1242	unk.

Demolished

Building/Feature Name(s)	LACO #	Date
Greenhouse	1355	1926

D8 SIGNIFICANCE CONTINUED

emigration to Southern California which continues to this day. As many of the new-comers to the Southland were health-seekers desperate for a cure for tuberculosis and other respiratory illnesses, Los Angeles County experienced an health crisis unlike any it had seen in its years as a tiny pueblo. Often, the cost of attempting to cure these diseases quickly outstripped the patient's ability to pay, and thus many soon became as desperate for public assistance as they were for a cure. The County hospital, then run by the Sisters' of Charity, was so overwhelmed by the number of people needing care for serious and life-threatening illness, that it could no longer care for the merely indigent. Demand rose for an "Alm's House" or a "Poor Farm" where the relatively able-bodied but indigent could receive food and shelter in exchange for agricultural and light manual labor. On May 12, 1887, the Los Angeles County Board of Supervisors passed a resolution of intent to purchase 124.4 acres of land owned by Andrew W. Ryan in the Los Nietos Valley for $100 per acre. The first "inmates" were transferred to the County Farm in December of 1888.

During its first ten years of operation the County Farm rapidly grew to an average of 200 inmates. Most required little treatment, and the staff was accordingly quite small. Many of the Farm's inmates came only for a month or two and then re-entered society. The bulk of the population was from Northern Europe, and many had come to recover from the last stages of respiratory illness or from work-related injuries. By the early 1890's the Farm boasted 85 Jersey and Holstein cows, 800 chickens, 150 hogs, and a small herd of sheep. Crops grown included many vegetables as well as alfalfa and oats, oranges and olives. In 1888, an artesian well had been found at the site and in 1890 a 10 horsepower pump was added. The remnants of both can still be found under Building 30.

By 1915, the County Farm had a population of 500 patients and 45 staff, and had come under the leadership of its most influential and well-known superintendent, William Ruddy Harriman, who would head the County Farm until 1931.

Following further growth during World War I, the Los Angeles County Farm began its transition from farm to infirmary. Ground was broken for the Farm's first infirmary wards in 1922, and this move was quickly followed by the construction of four more such wards within a year. (These eight buildings are now known as the "200 Buildings.") By 1924, the Farm housed 1142 patients, 257 of whom

(See Continuation Sheet, Page 7)

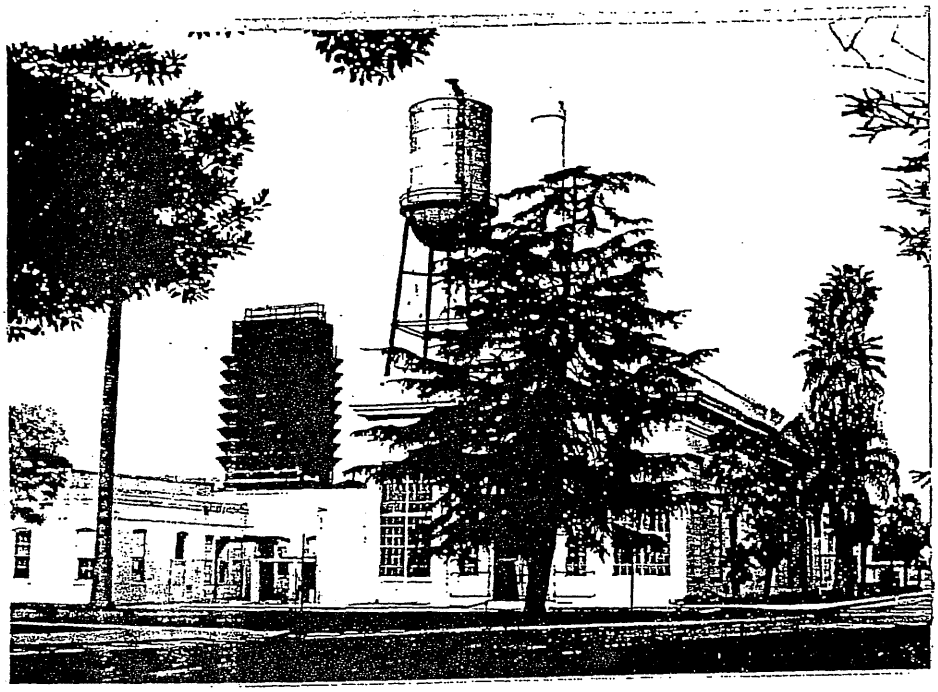
D8. SIGNIFICANCE CONTINUED

were diagnosed as insane, and 260 of whom were chronically ill. By 1925, the Farm was widely considered to be one of the largest hospitals for chronic disease in the United States. Its facilities had expanded to include a research department, a morgue, a pharmacy, a dental department, psychopathic wards, and a physical therapy department. Occupational therapy was becoming increasingly important to the Farm, and tasks included carpentry, weaving, basket making, and other crafts. Since the first World War, the demographic make-up of the Farm had also changed dramatically. Seventy percent of the patient population was now American-born.

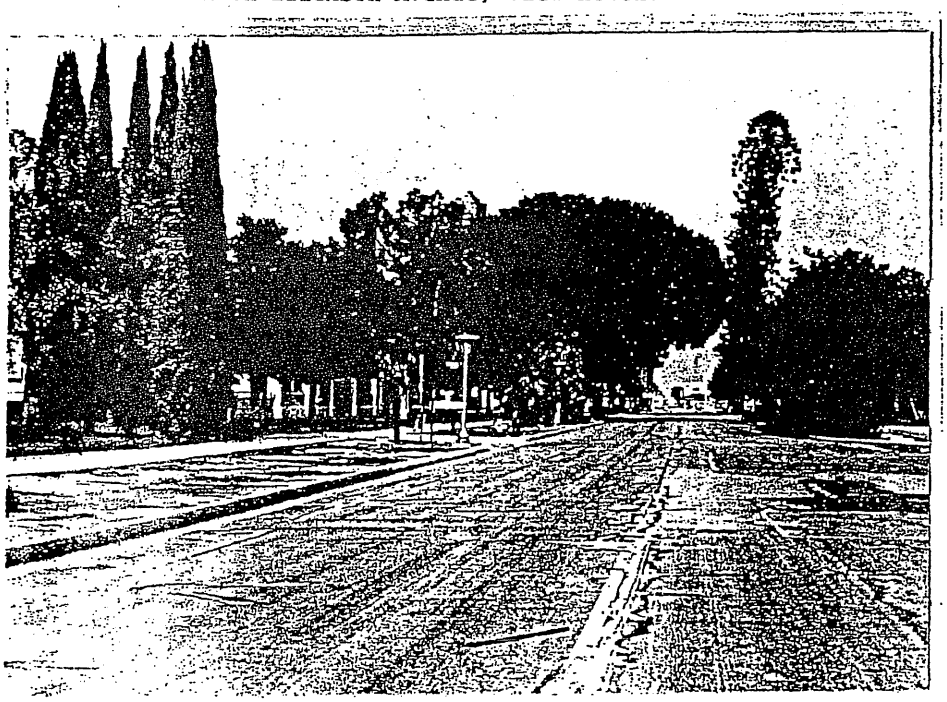
The Depression brought dramatic increases in the size of the patient population, as more and more middle-class and even wealthy citizens became destitute. By 1929, the patient population had nearly doubled. However, the greatest change to the Farm during the Depression resulted from an increase in disabled patients. By the early 1930's, over 400 patients were confined to wheelchairs, and by the mid-1930's Rancho Los Amigos' (as it had been officially re-named in 1932) Physiotherapy Department was treating thousands of patients a year.

The advent of World War II only served to increase this trend. By 1943, Rancho Los Amigos had a surplus of over 500 beds, as many of its patients left for the State Guard or for war-time factory jobs. Because of this ready availability of space, the County transferred many of its polio patients to Rancho Los Amigos for care. Earlier that year, the director of the Physiotherapy Department, Elberta Arnold, had traveled to the University of Minnesota to train under Sister Elizabeth Kenny in her method of physical therapy. Within two years of Arnold's return, fifty percent of Rancho Los Amigos' polio patients were recovering within six weeks, and the majority of the remainder were discharged within a year. This shift in focus, from general care to the specialization in treatment of polio and other physical disabilities, would sharpen as polio swept across the country in the years to come.

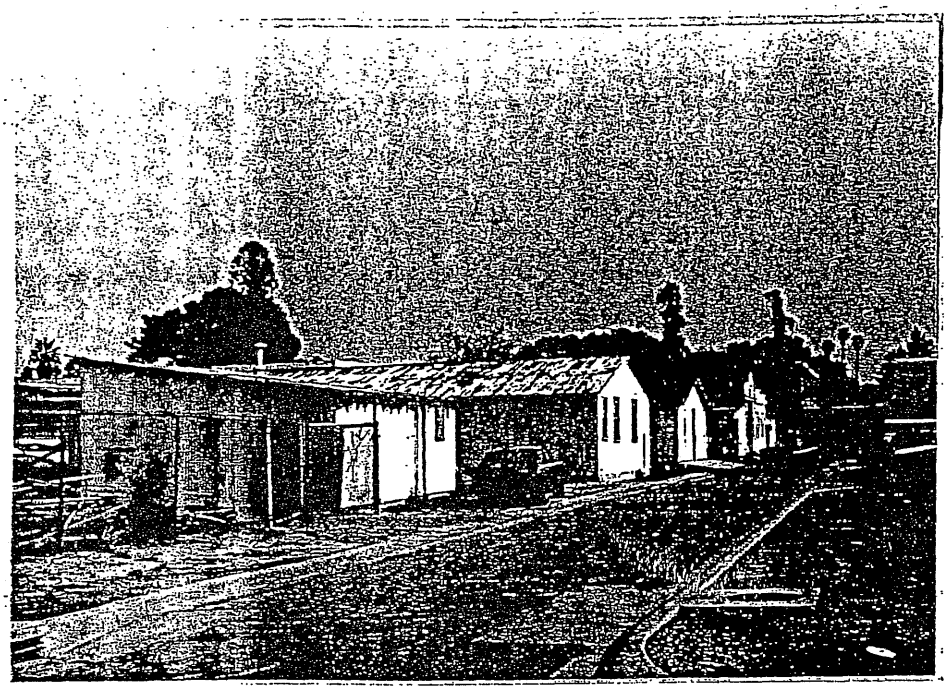
The portion of Rancho Los Amigos identified as an historic district is an intact collection of structures used for health care and social services from 1888-1950. The district retains its sense of time and place and contains examples of property types associated with its history.



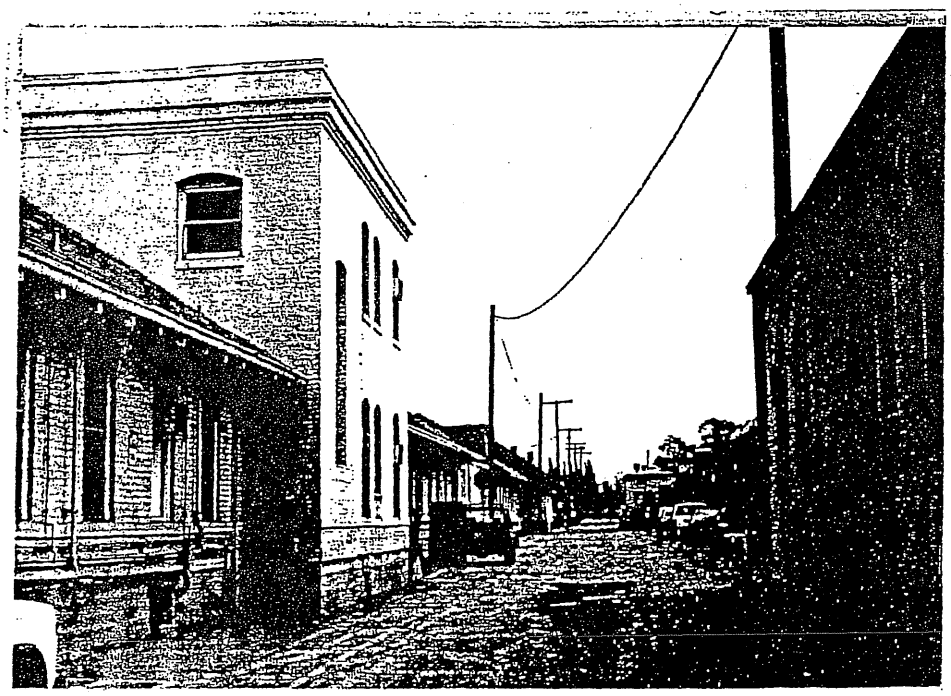
Context: north on Erickson Avenue; view north.



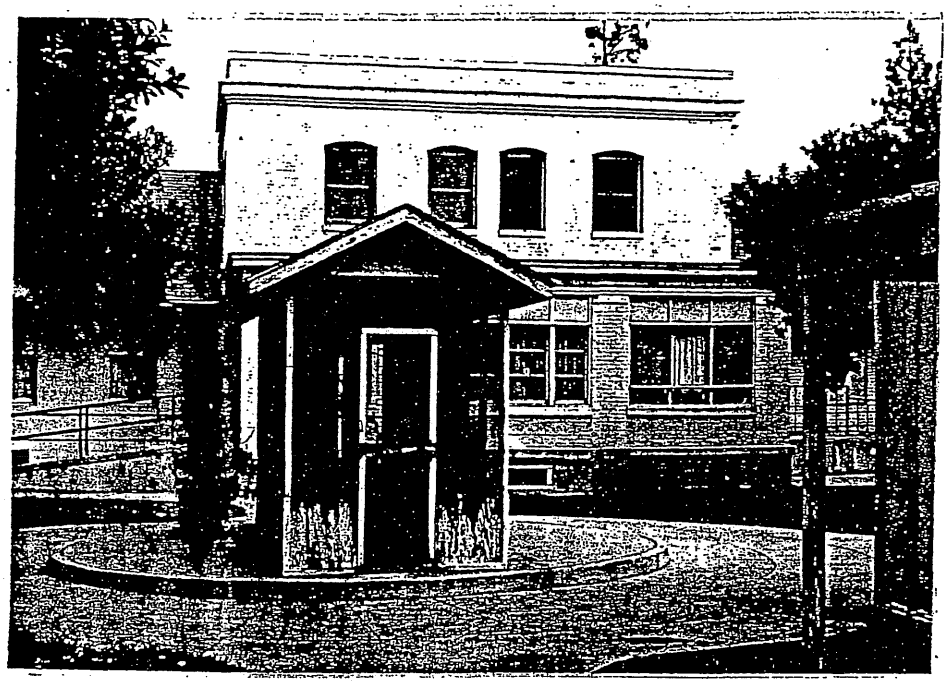
Context: north on Erickson Avenue; view northwest



Context: east on Bonita Street; view east.



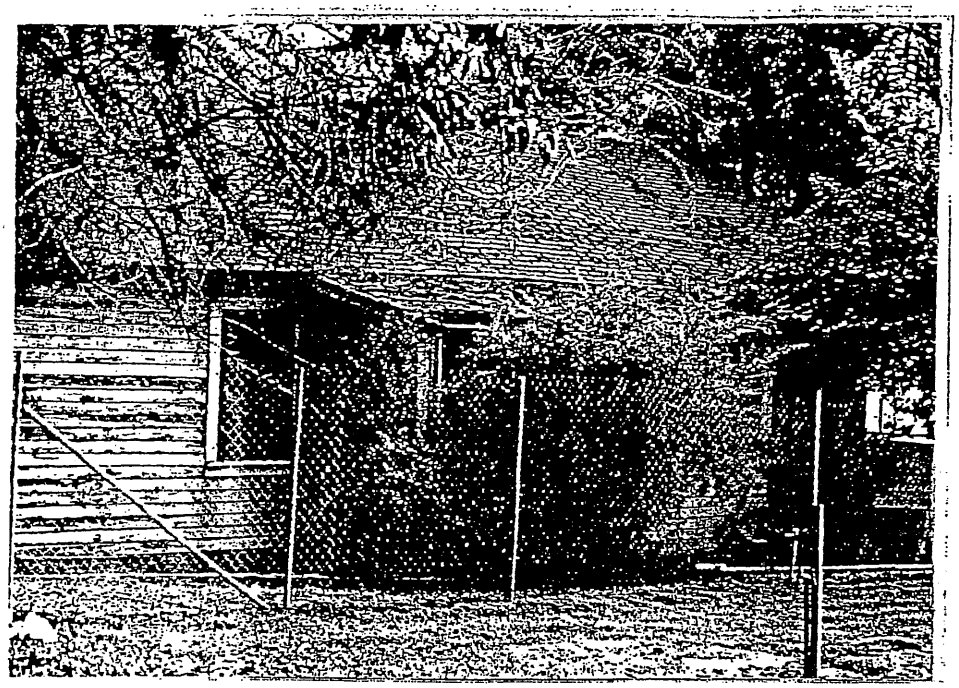
Context: east on Flores Street; view east.



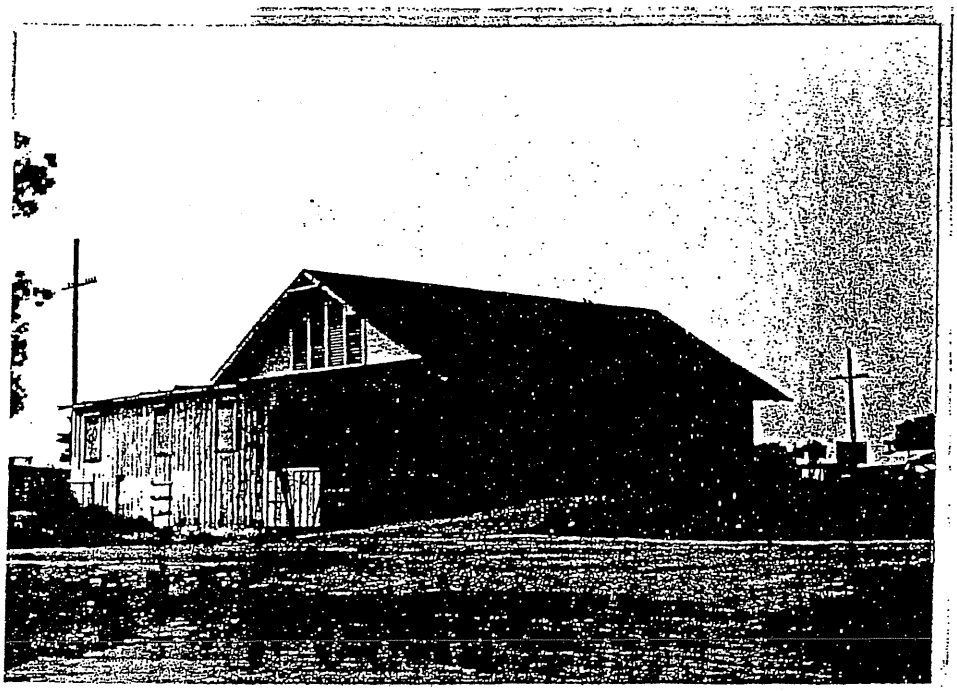
LACO #1205, Building 303 and 304, north wing courtyard with aviary; view north - Contributing



Bay Fig tree planted c. 1900, LACO #1263 left, 1262 right; view southwest - Contributing



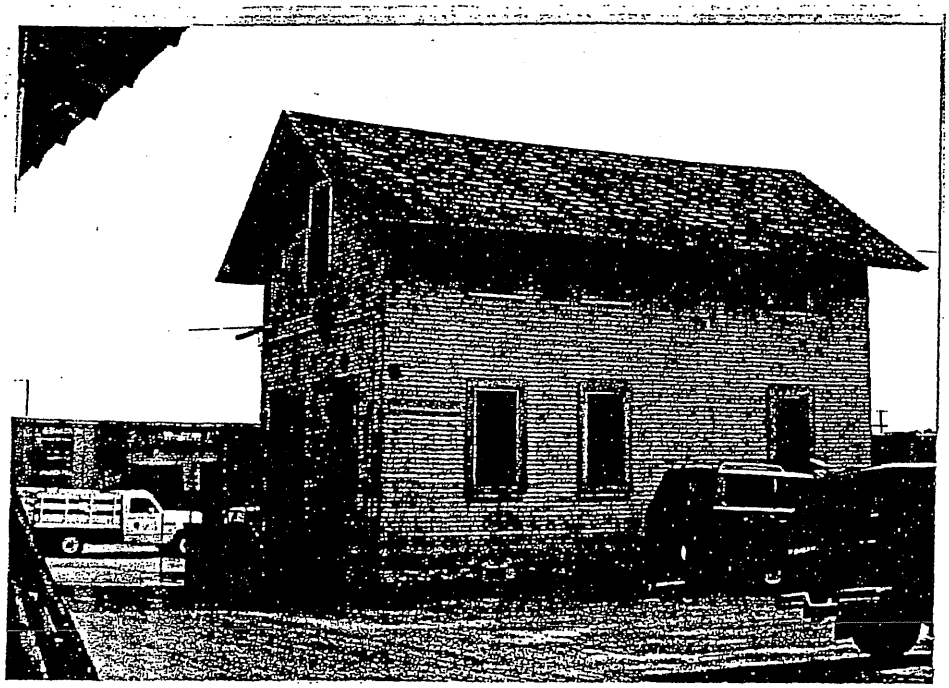
LACO #1137, Residence; view southeast - Contributing



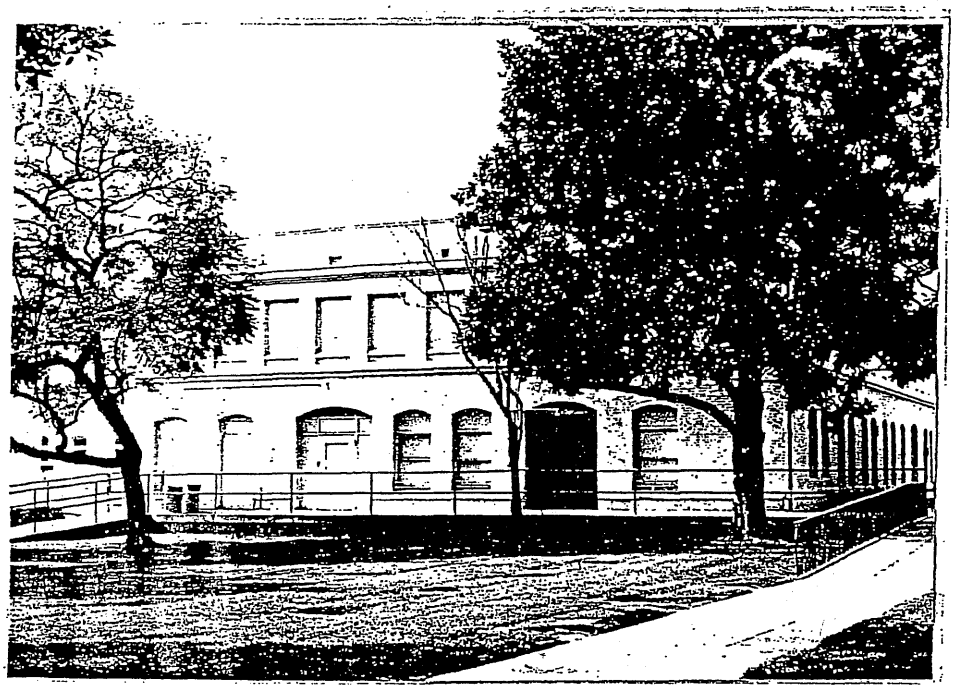
LACO #1352, Train Station, Supply Warehouse; view southwest - Contributing



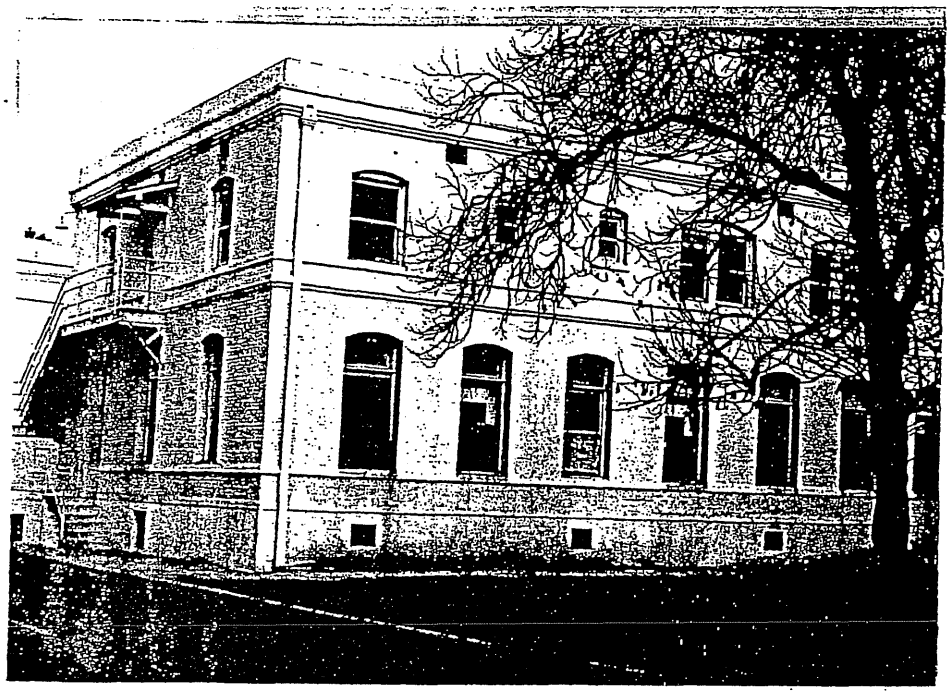
LACO #1254, Computer Center; view northeast - Contributing



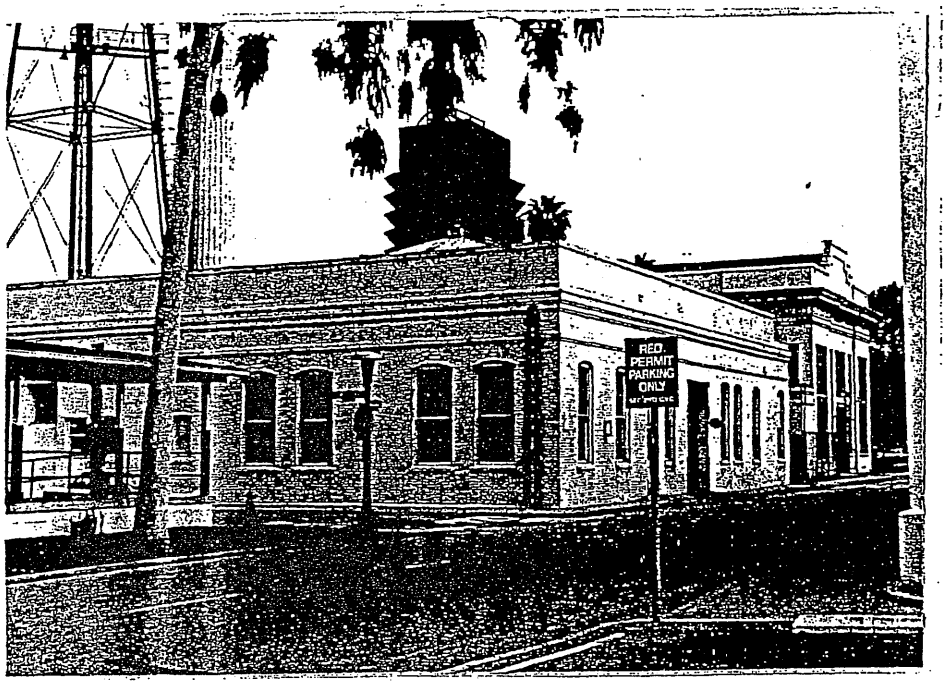
LACO #1287, Pest Control; view southeast - Contributing



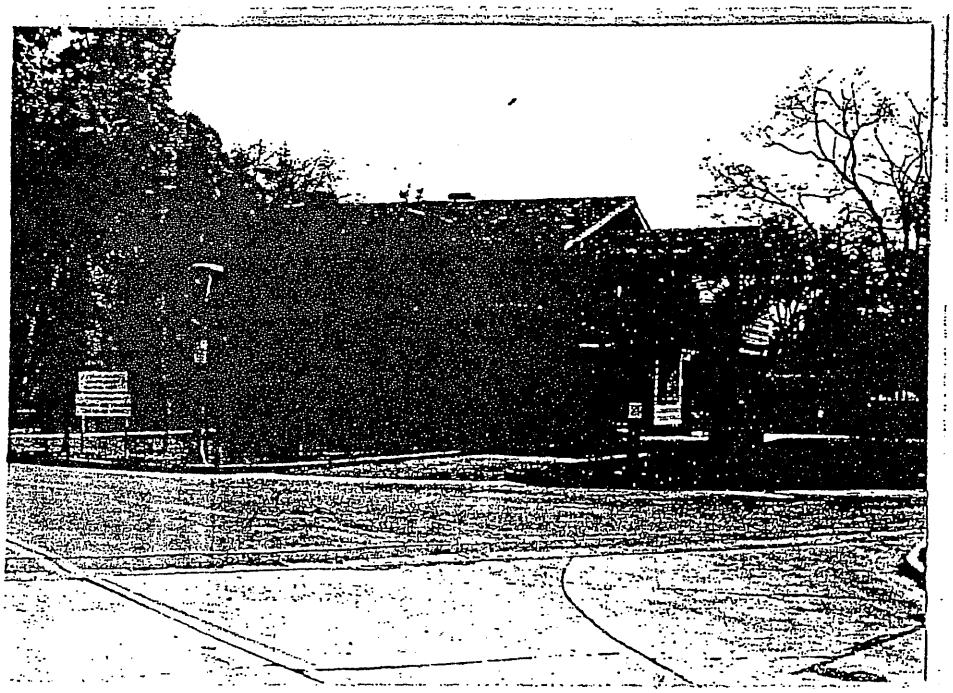
LACO #1262, Print Shop and Record Storage; view west - Contributing



LACO #1262, Print Shop and Record Storage; view northeast - Contributing



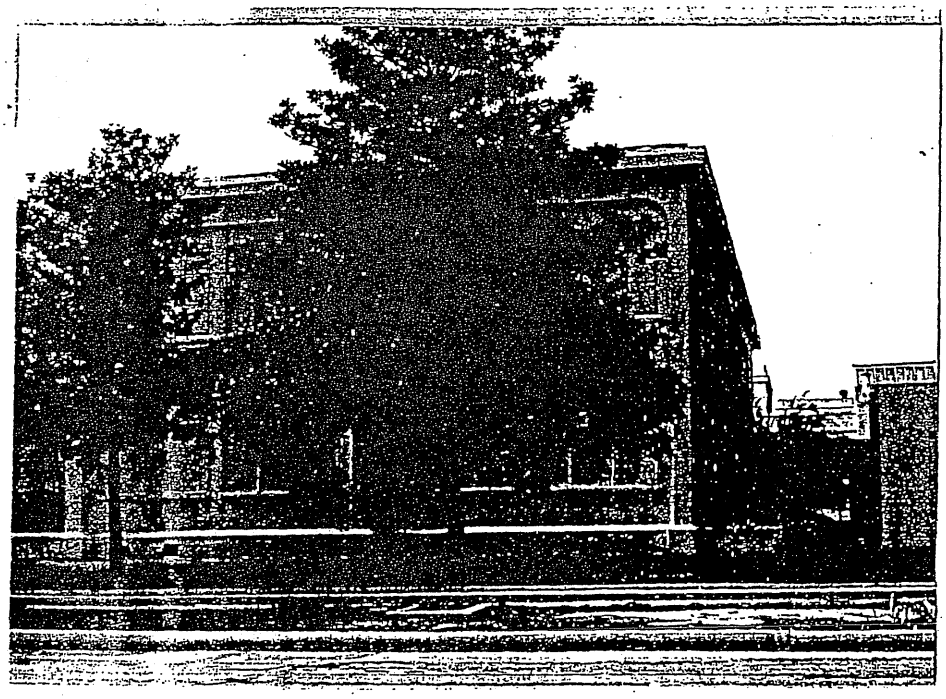
LACO #1300, Storage, back; LACO #1302, Mechanical Shop, front - Contributing



LACO #1101, Harriman House; view south - Contributing



LACO #1101, Harriman House; view northeast - Contributing



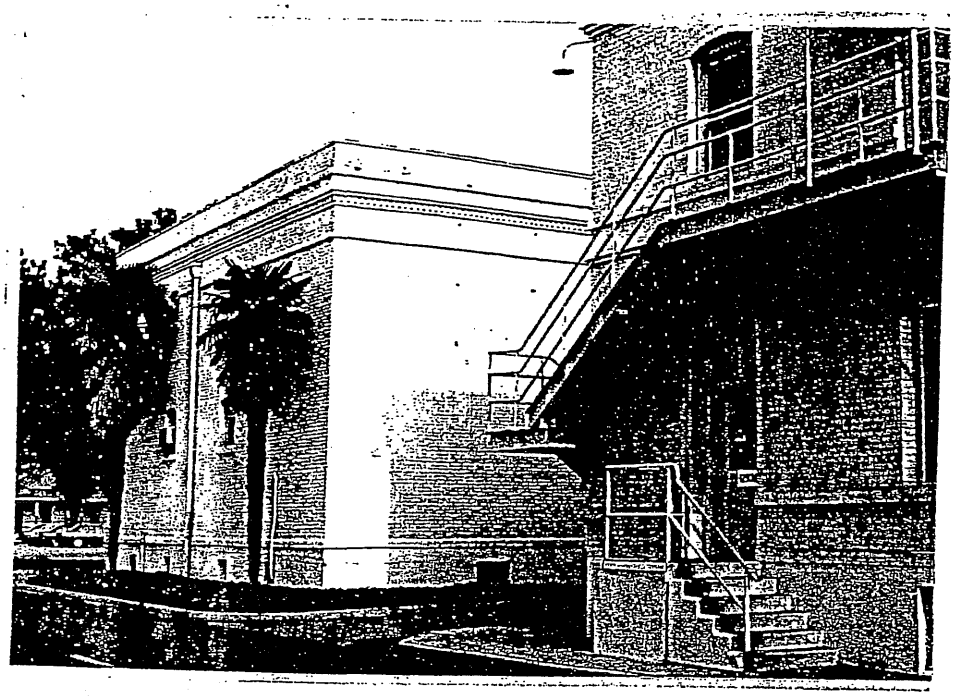
LACO #1184, Building 30, east elevation; view west - Contributing



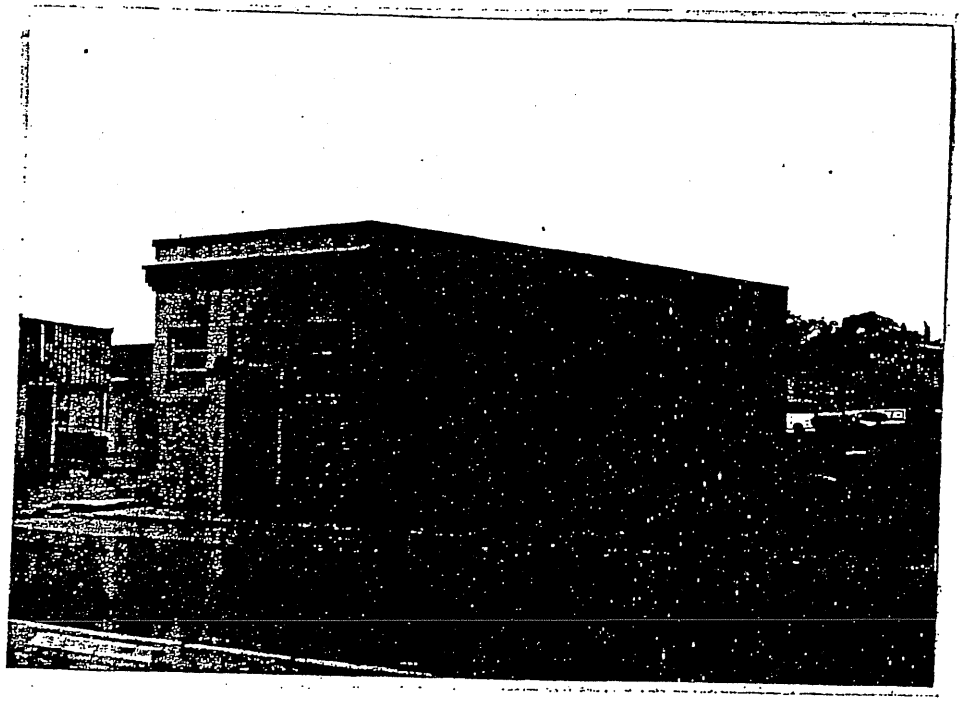
LACO #1185, Building 40, Ward 40; view northwest - Contributing



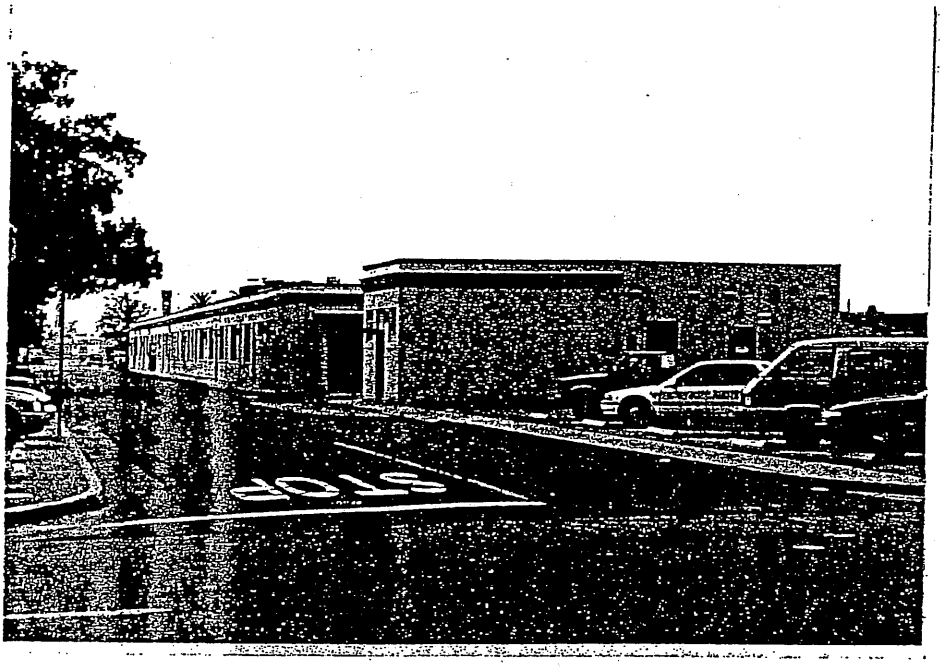
LACO #1263, Receiving, left; #1262, Print Shop & Record Storage, right; view southeast - Contributing



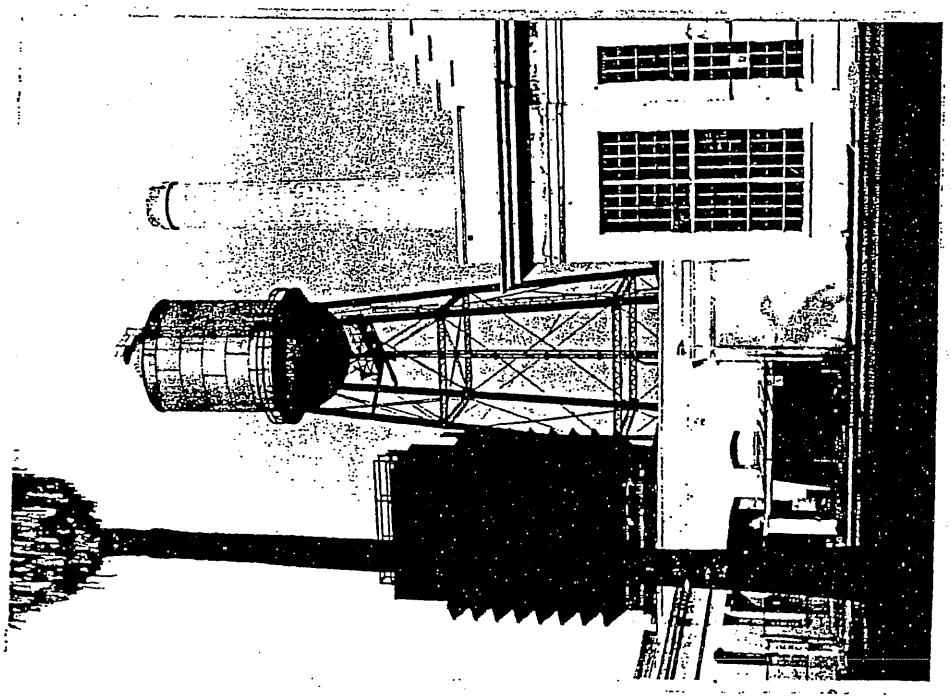
LACO #1263, Receiving, left; #1262, Print Shop & Record Storage, right; view northeast - Contributing



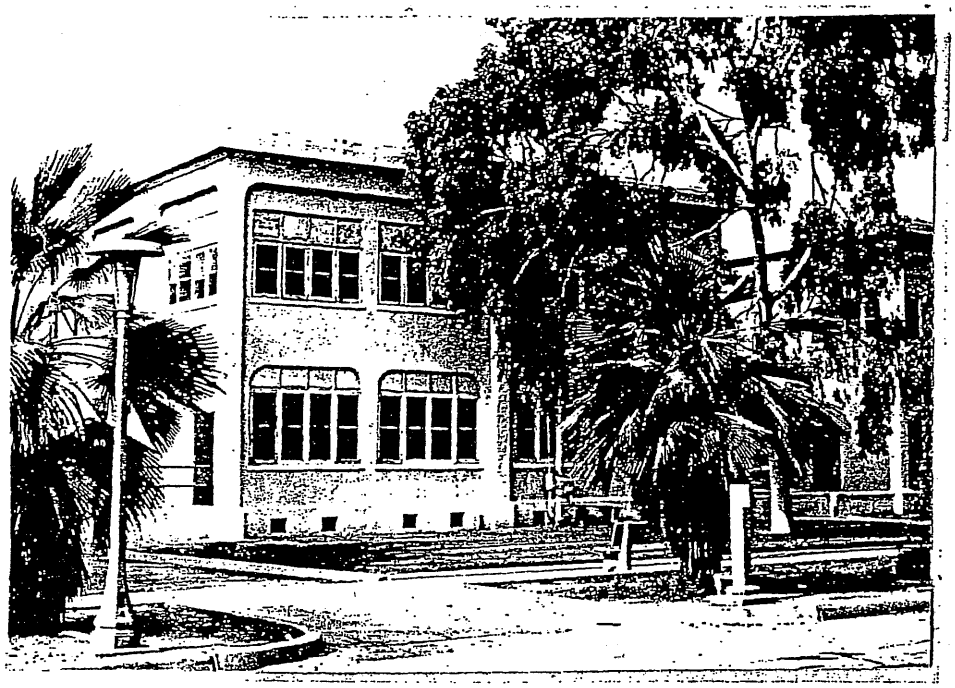
LACO #1276, Lock Shop, Office and Storage; view southwest - Contributing



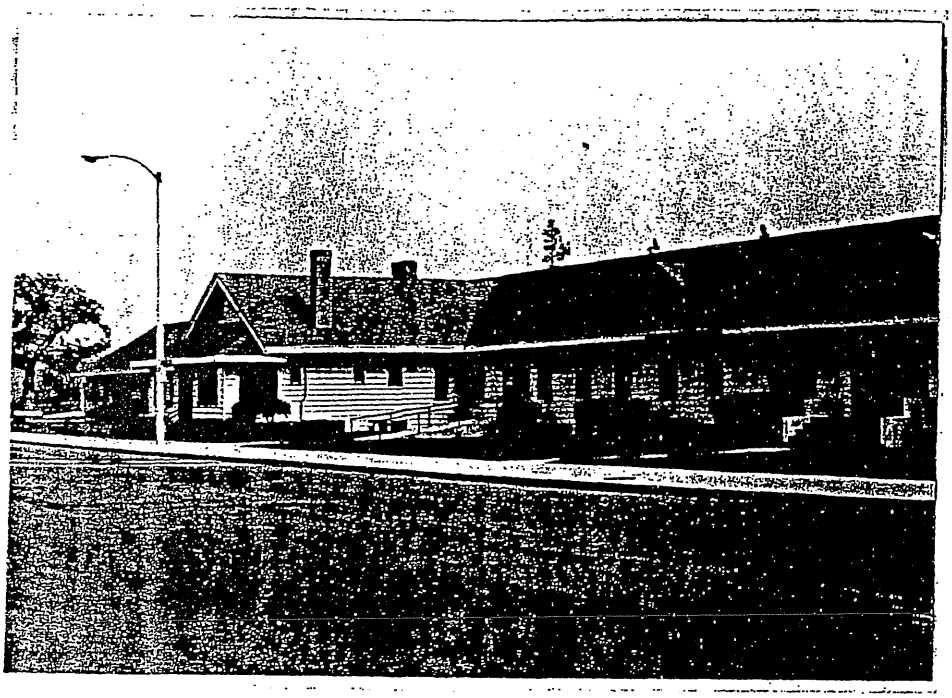
LACO #1276, Lock Shop, front; #1275, Shops & Master Mechanic, back; view south - Contributing



LACO #1301, Steel Tank and Tower, #1302 left foreground & #1300 right foreground; view north - Contributing



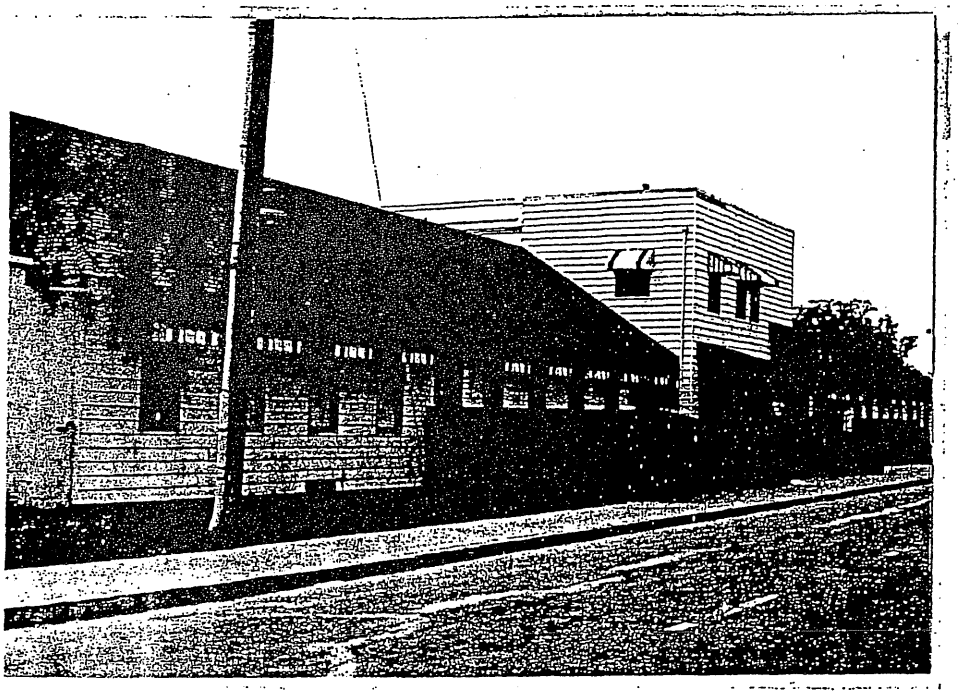
LACO #1186, Building 50, Ward 50; view northwest - Contributing



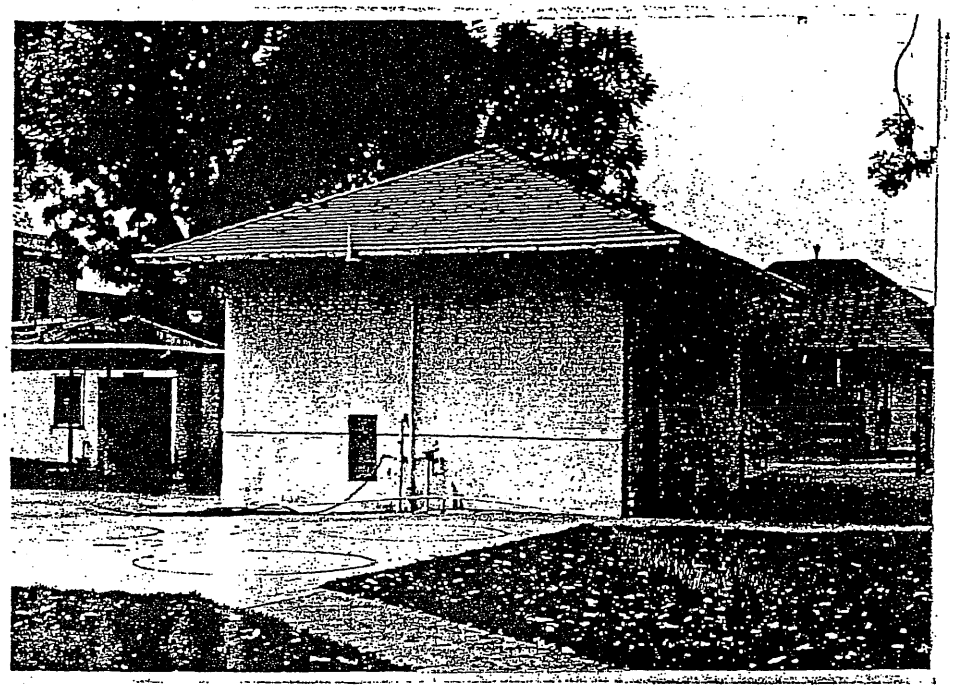
LACO #1205, Building 303 and 304; view northeast - Contributing



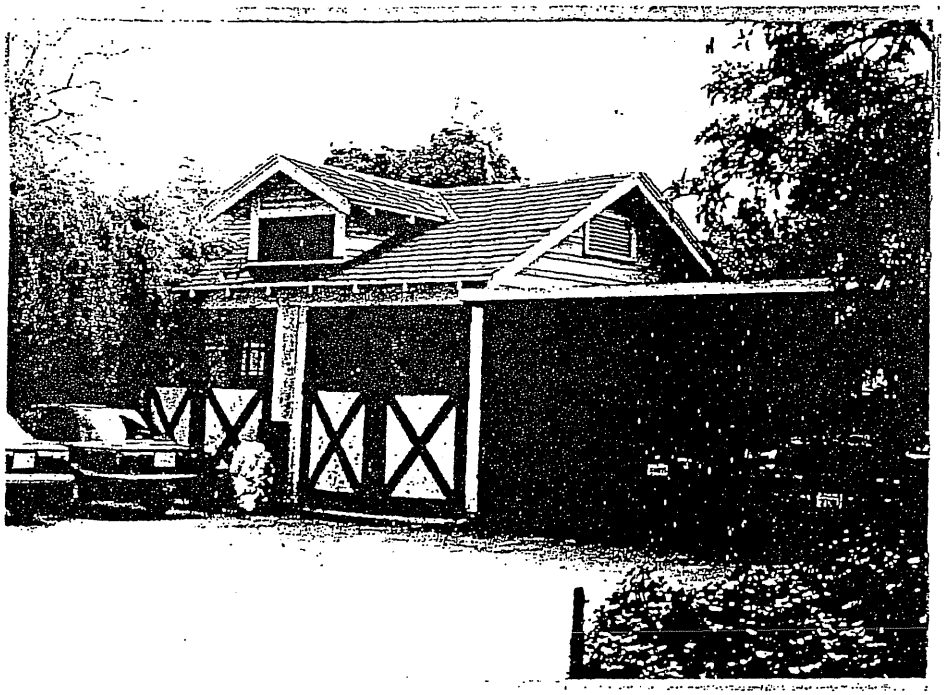
LACO #1205, Building 303 and 304; view northeast - Contributing



LACO #1205, Building 303 and 304, north elevation; view southwest - Contributing



LACO #1244, Toilet Room; view east - Contributing



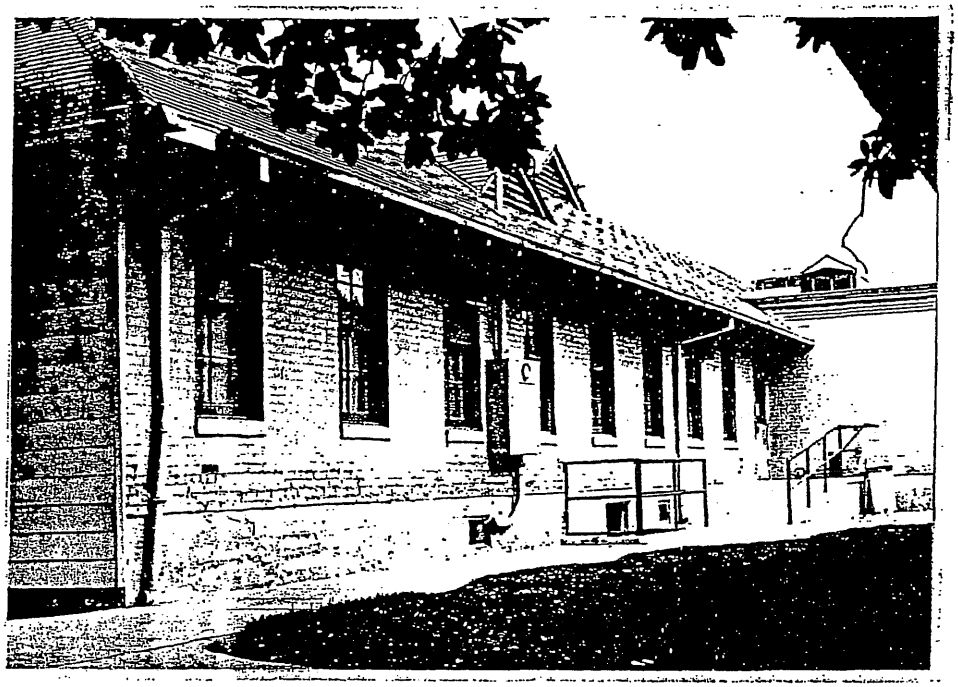
LACO #1177, Garage; view southeast - Contributing



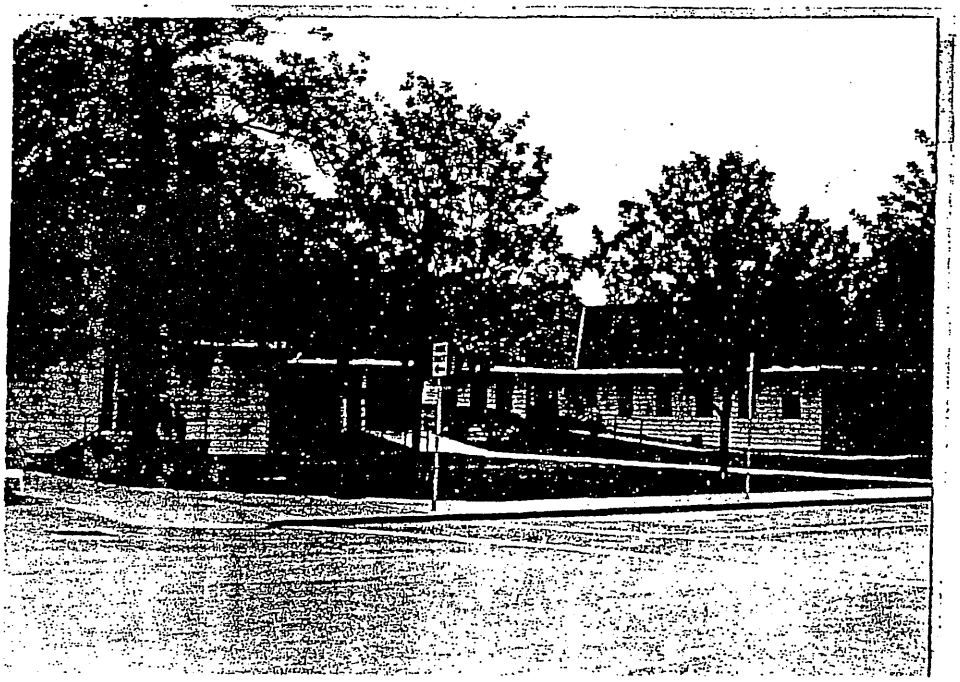
LACO #1275, Shops and Master Mechanic, Carpenter/Paint Shop; view north - Contributing



LACO #1203 left, #1241 left, #1242 right - Contributing



LACO #1203, Building 301 and 302; view northeast - Contributing



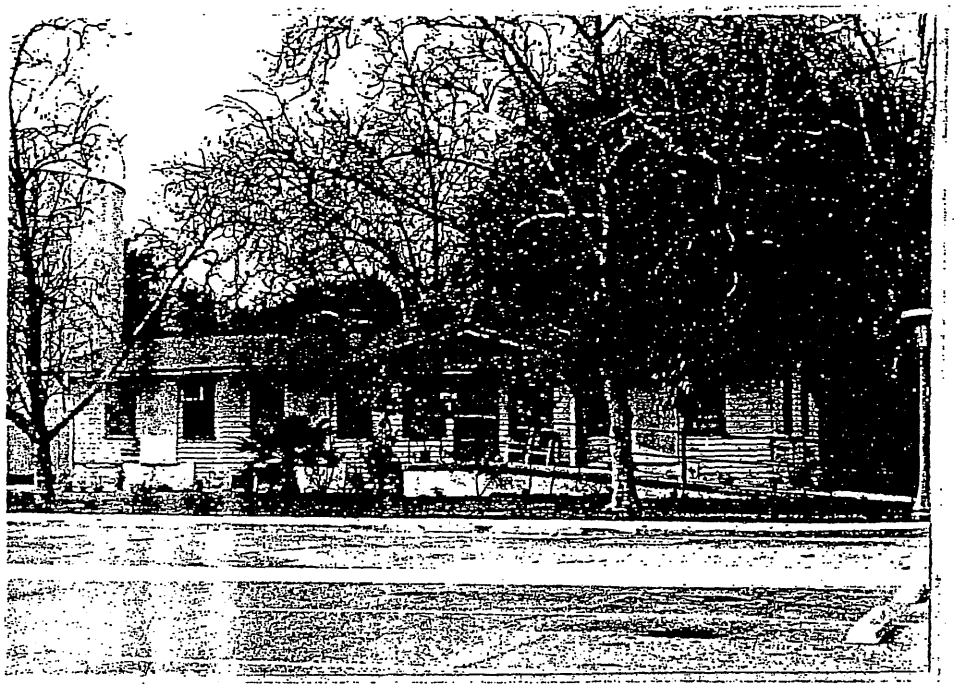
LACO #1203, Building 301 and 302; view southeast - Contributing



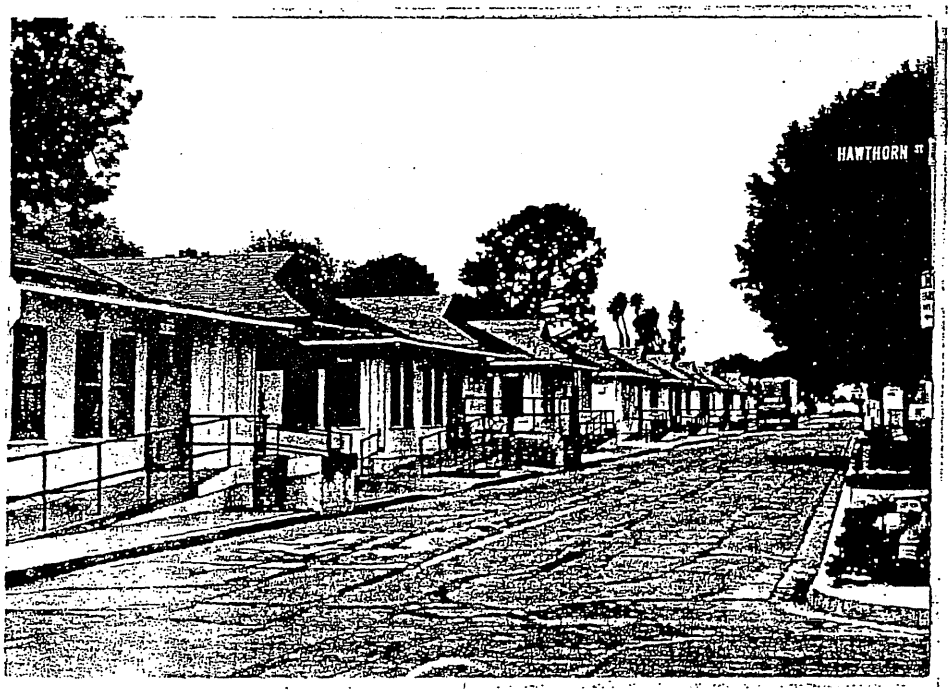
LACO #1203, Building 301 & 302, right; #1205, Building 303 & 304, left; view east - Contributing



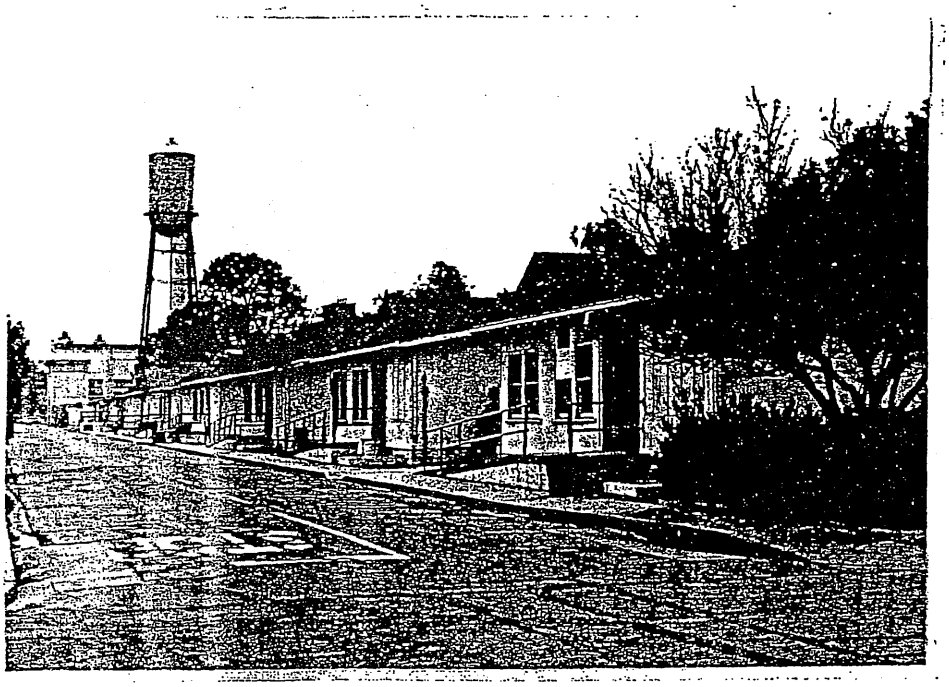
LACO #1286, Garage and Storage; view northwest - Contributing



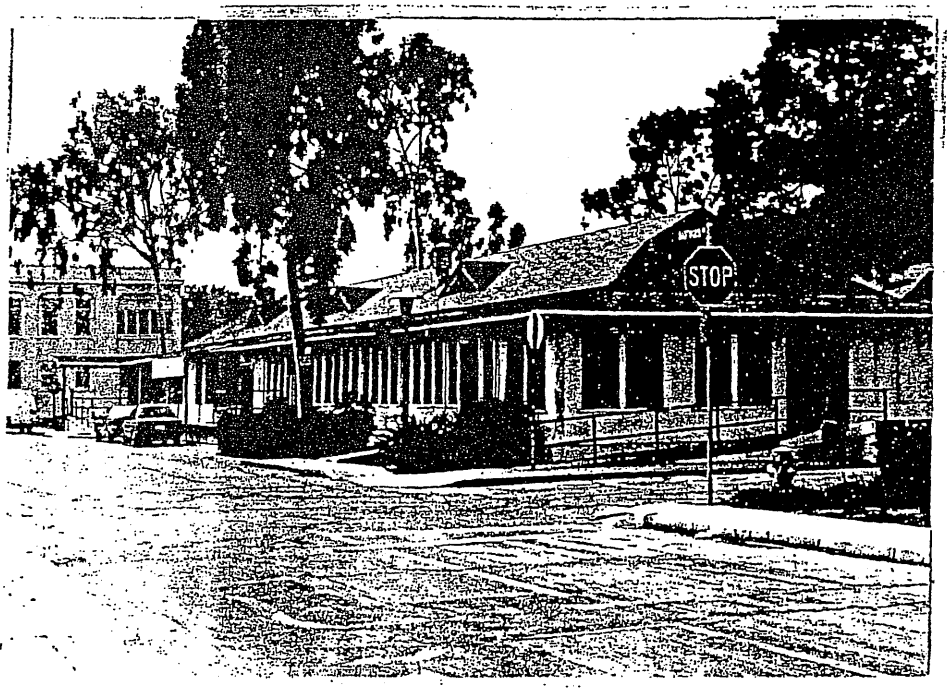
LACO #1121, Office Suite; view southwest - Contributing



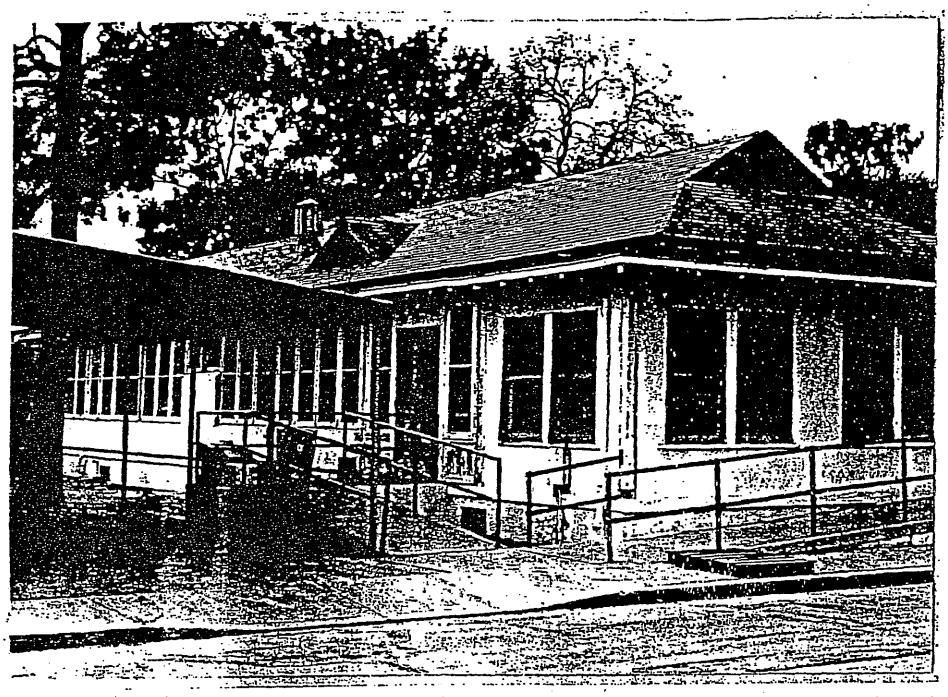
LACO #1189-1197, Buildings 201-209; view west - Contributing



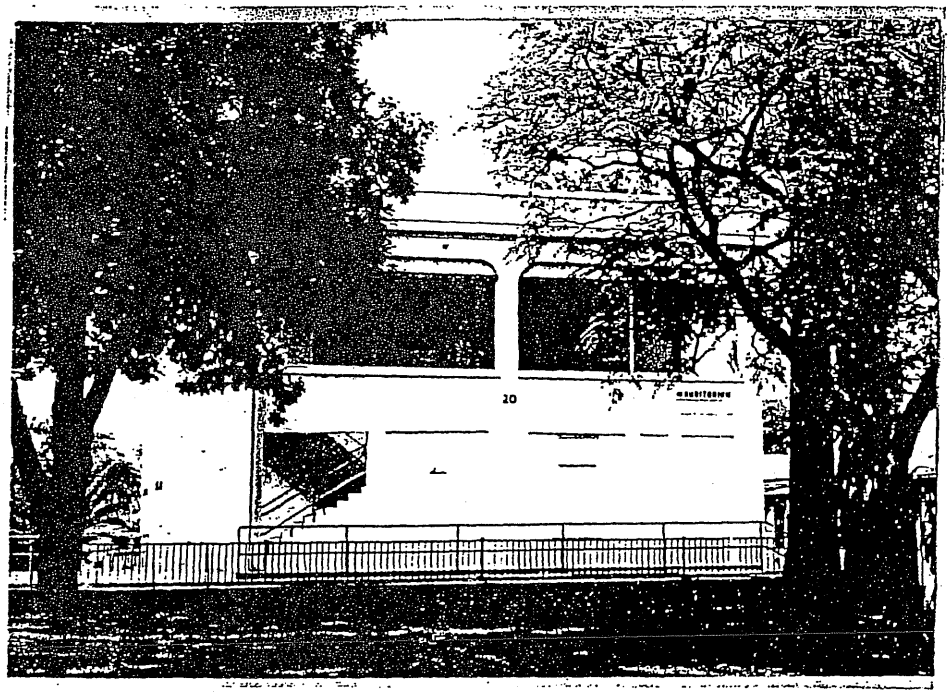
LACO #1189-1197, Buildings 201-209 with #1301, Tower in background; view east - Contributing



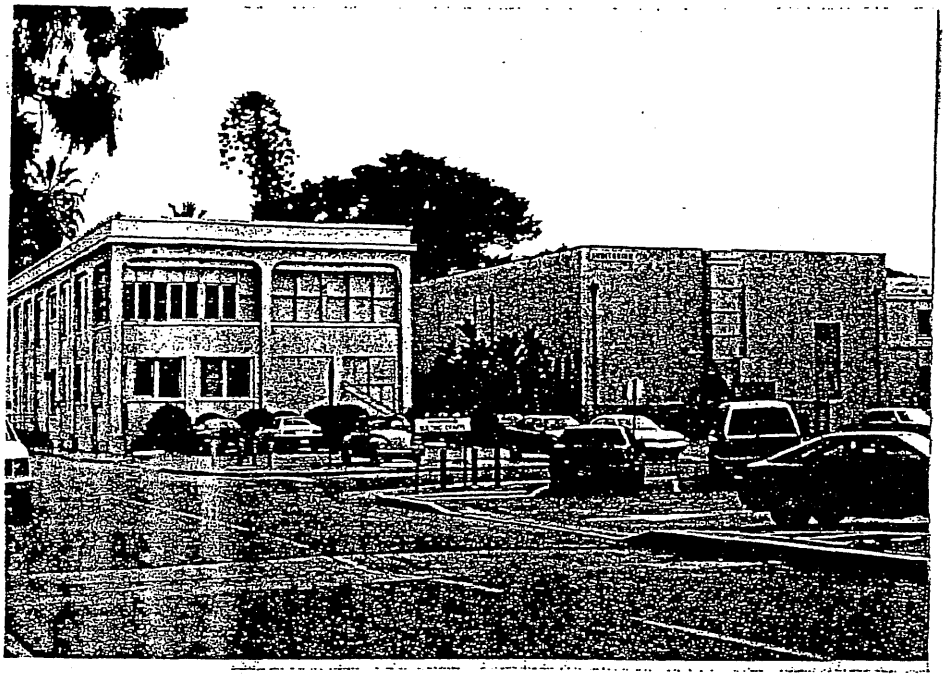
LACO #1189, Building 201, General Service; view southwest - Contributing



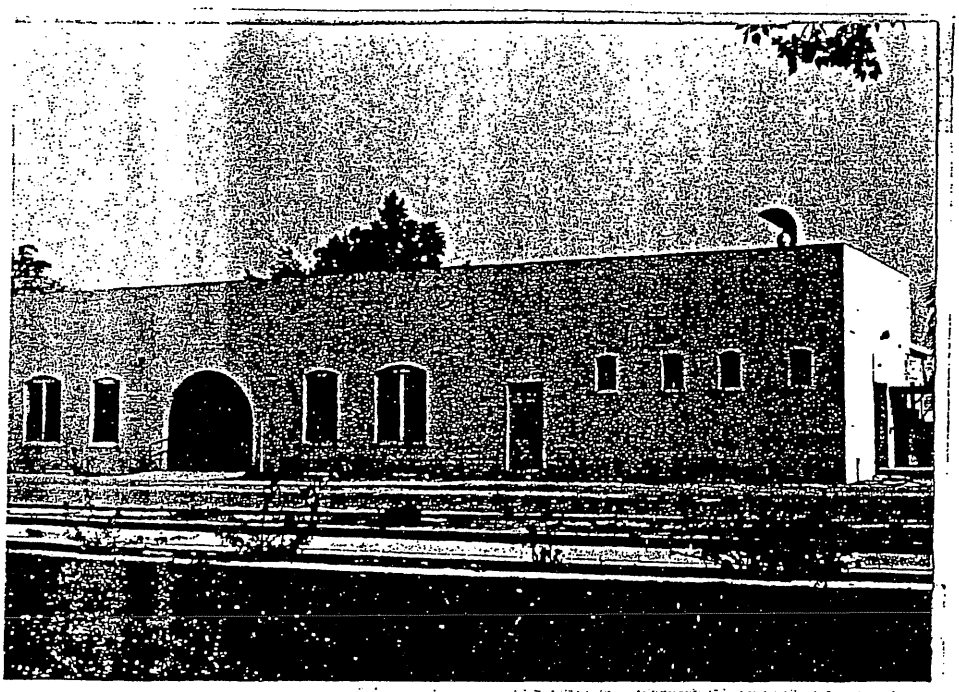
LACO #1190, Building 202, Housekeeping; view southwest - Contributing



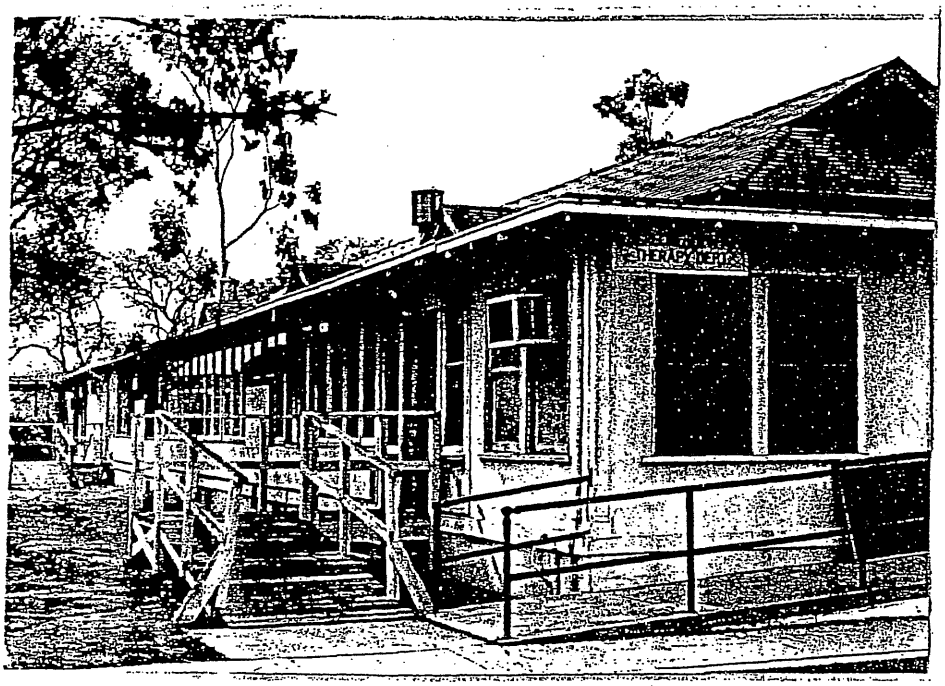
LACO #1260, Building 20, Storage; view west - Contributing



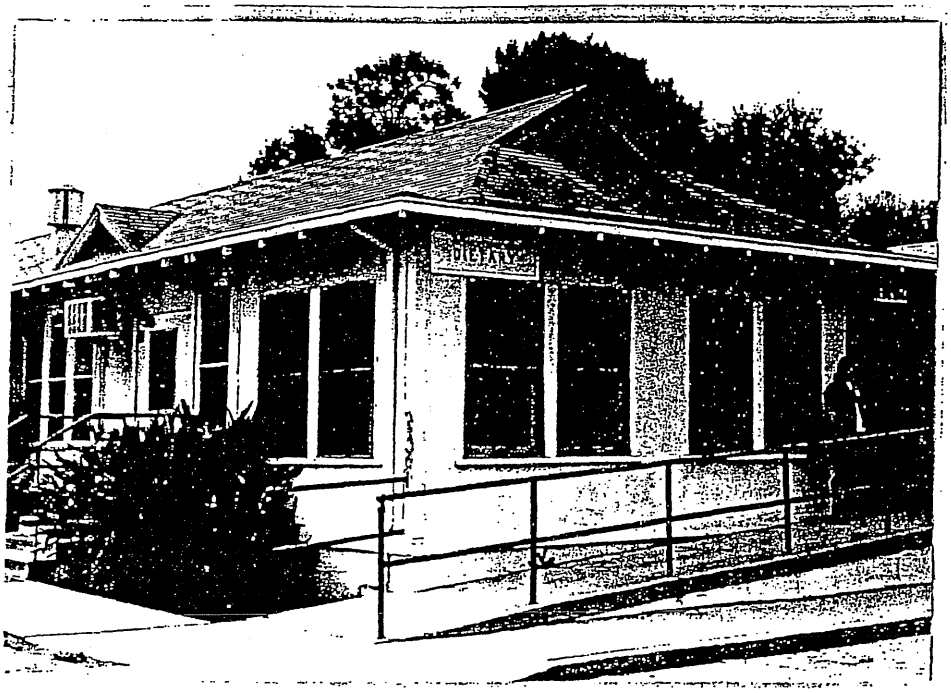
LACO #1261, Auditorium (rear view), right; #1260, Building 20 (rear view), left; view southeast - Contributing



LACO #1283, Trunk Storage; view east - Contributing



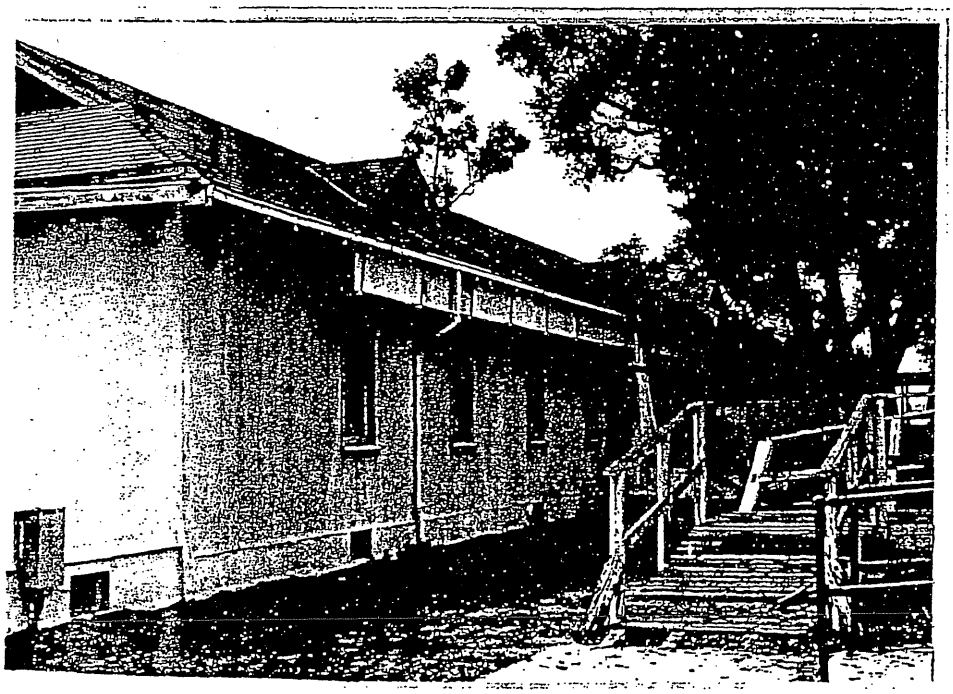
LACO #1193, Building 205, Rec. & Vol. Service; view southwest - Contributing



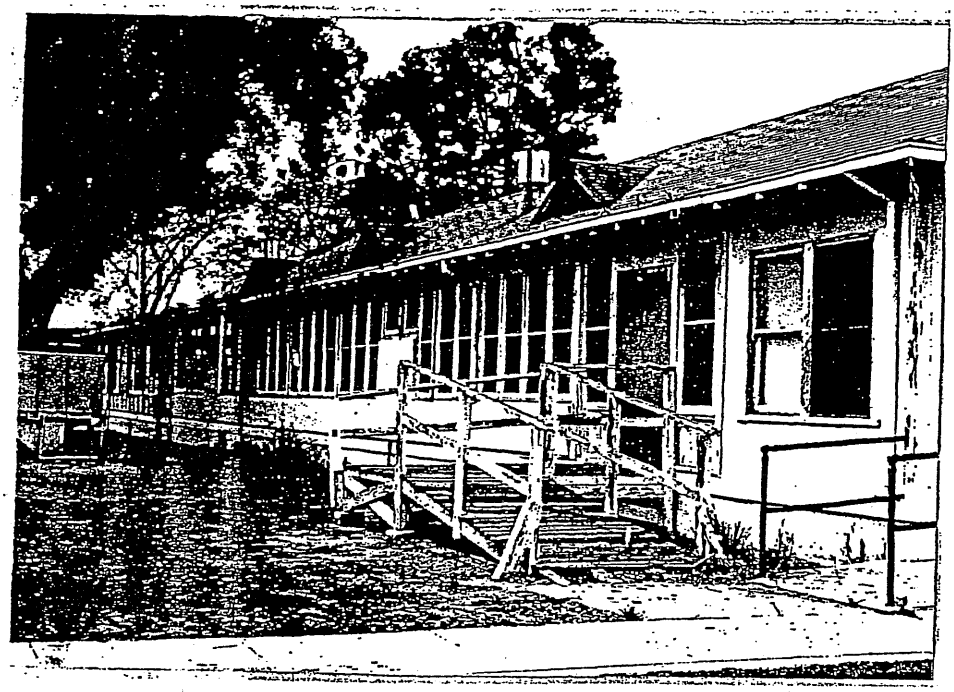
LACO #1194, Building 206, Dietary Office; view southwest - Contributing



LACO #1194, Building 206, Dietary Office; view southwest - Contributing



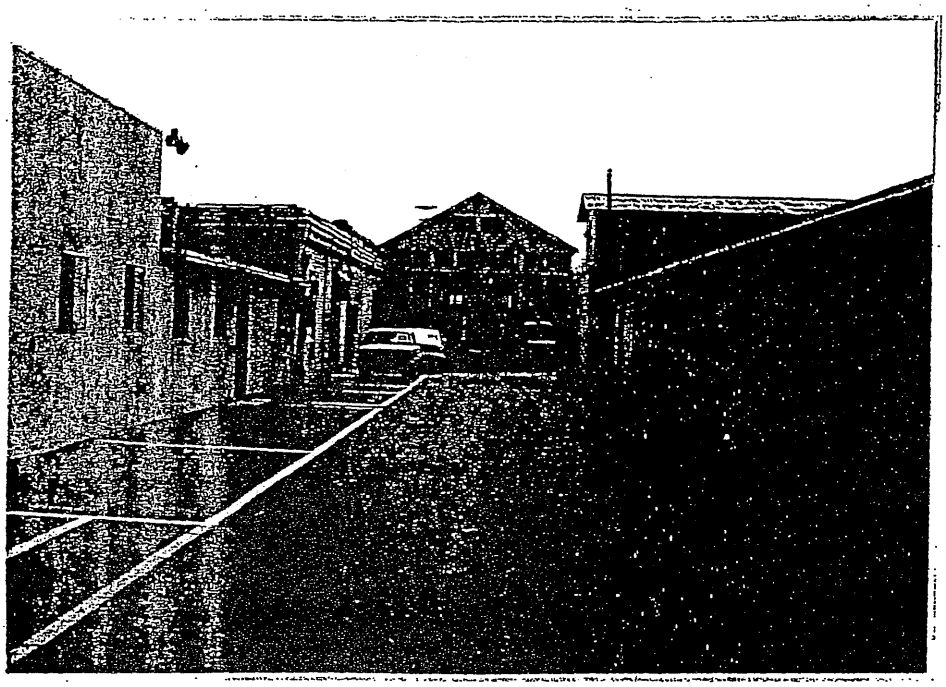
LACO #1195, Building 207, Storage 207; view southeast - Contributing



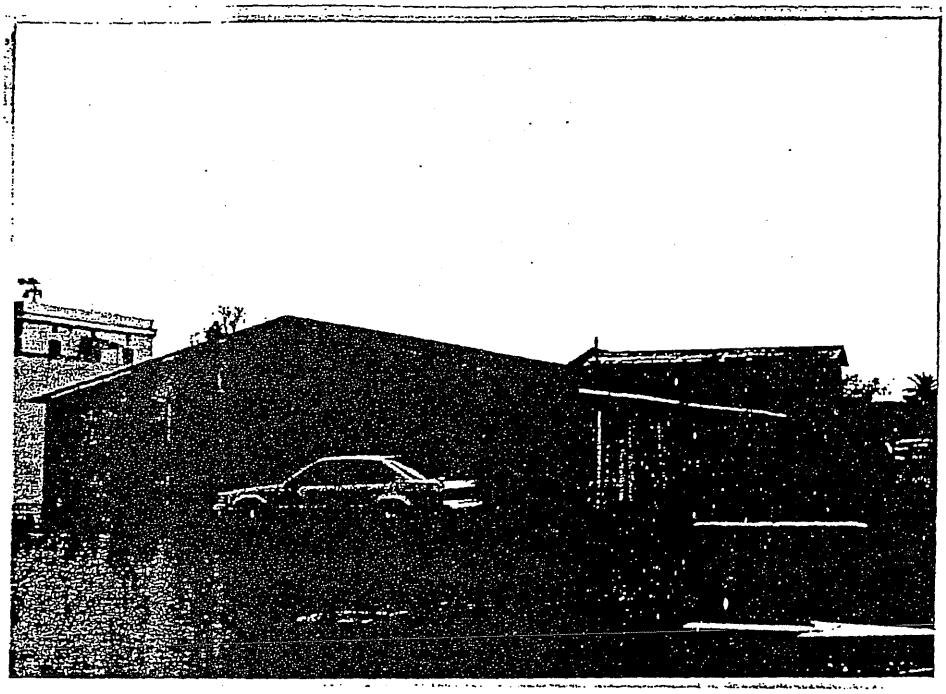
LACO #1196, Building 208, Classroom 208; view southwest - Contributing



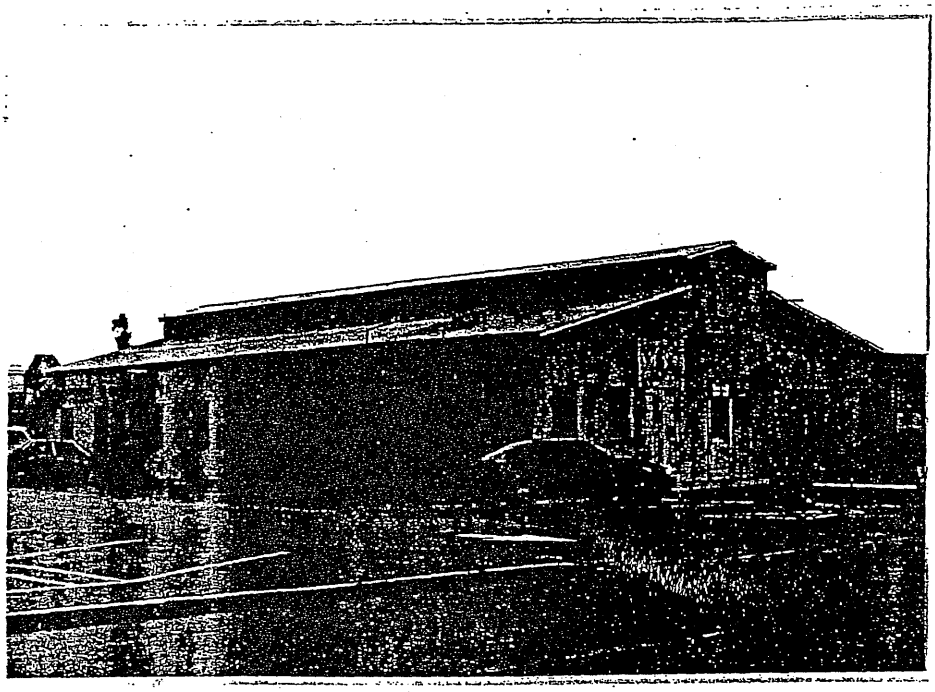
LACO #1123, Residence; view southwest - Contributing



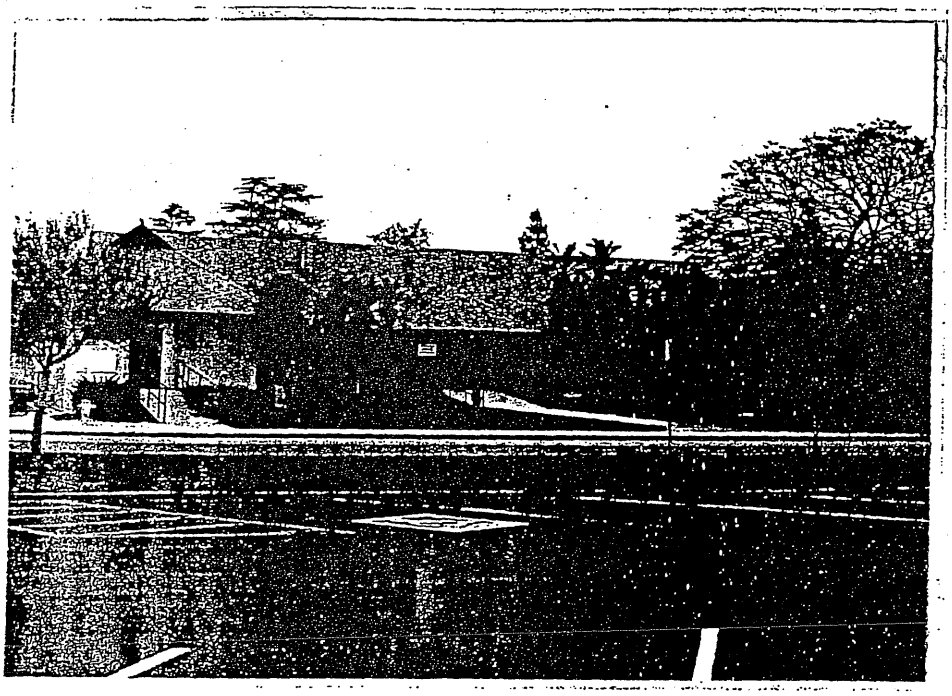
LACO #1278, Garage & Storage, right; #1275, Garage & Storage, left; view south - Contributing



LACO #1278, Garage and Storage; view southeast - Contributing



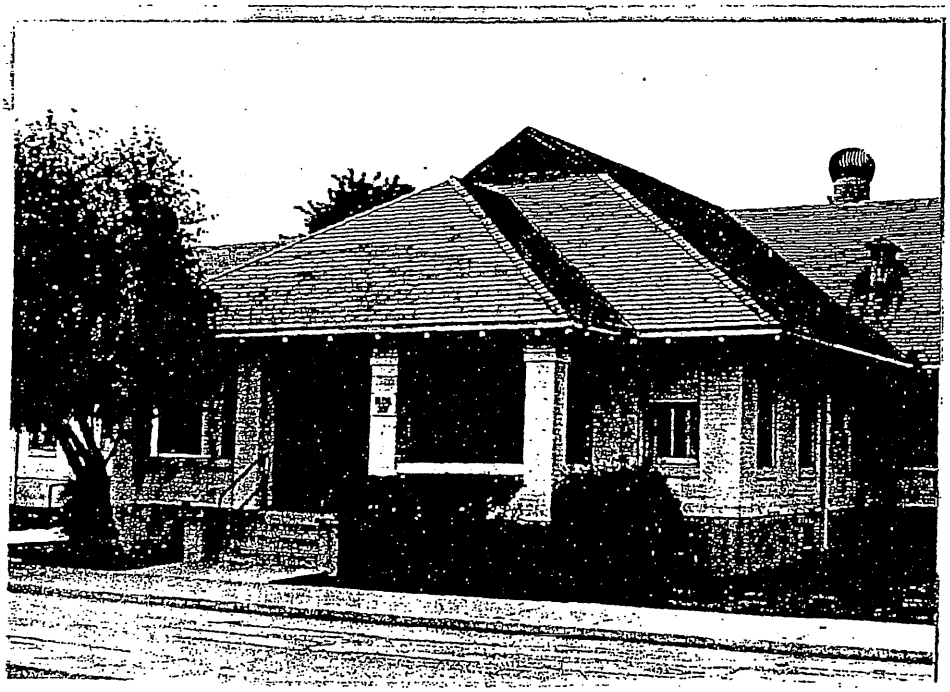
LACO #1207, Work Prep Center No. 2, Vocational Training; view southeast - Contributing



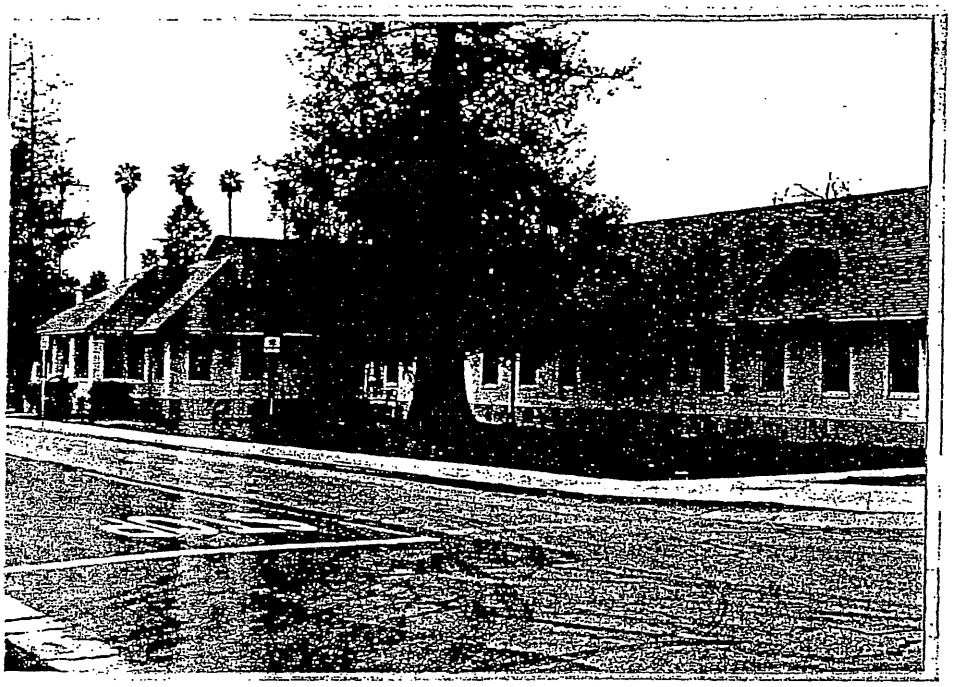
LACO #1202, Building 305 & 306, Drug Abuse Rehabilitation Center; view northwest - Contributing



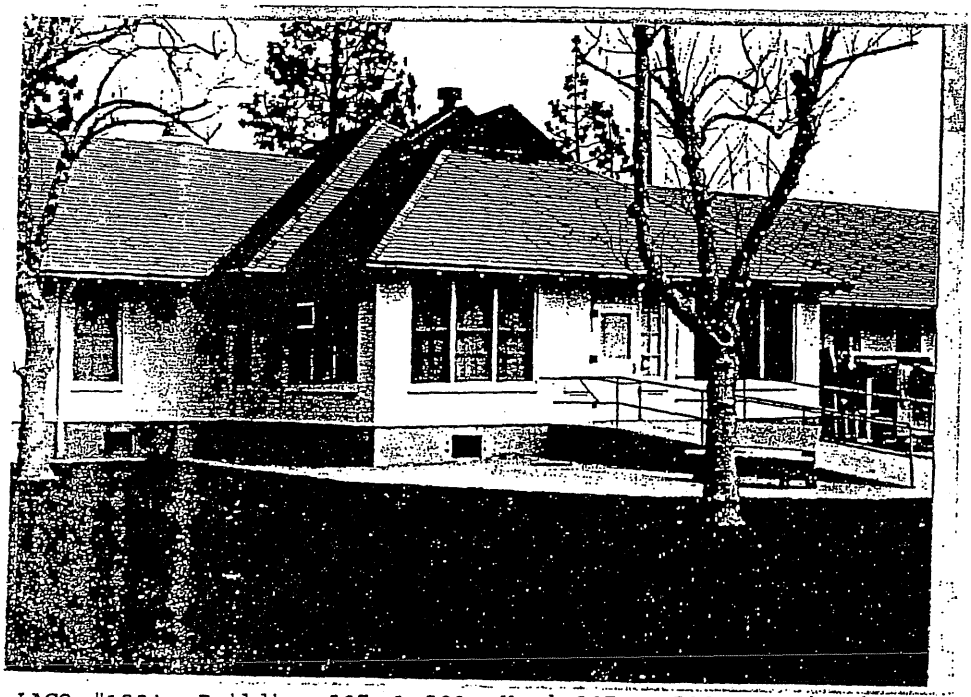
LACO #1202, Building 305 & 306, Drug Abuse Rehabilitation Center; view southeast - Contributing



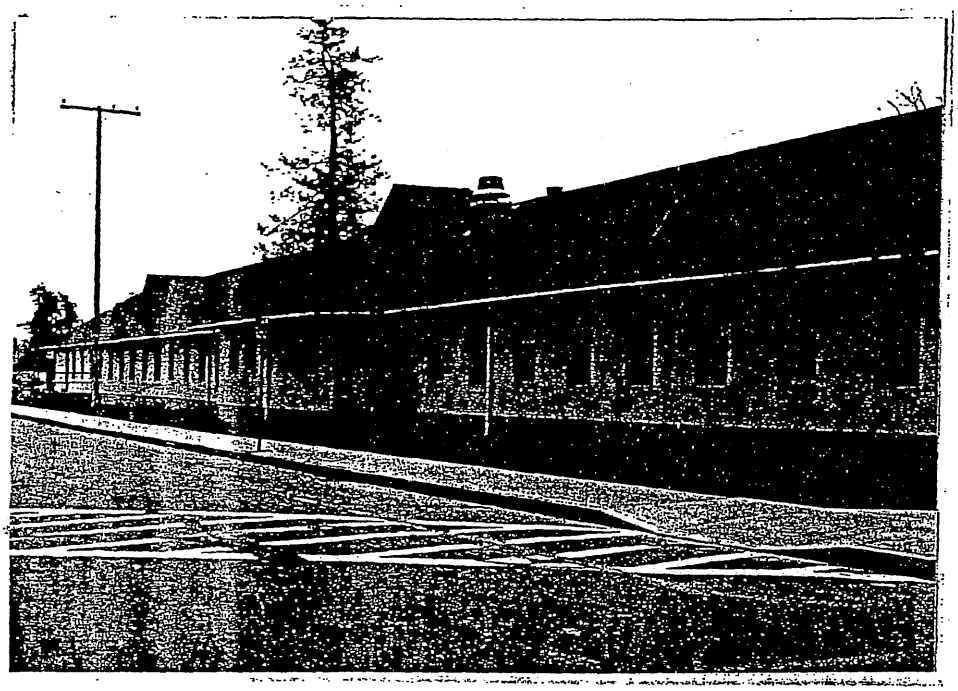
LACO #1204, Building 307 & 308, Ward 307 & 308, east elevation; view southwest - Contributing



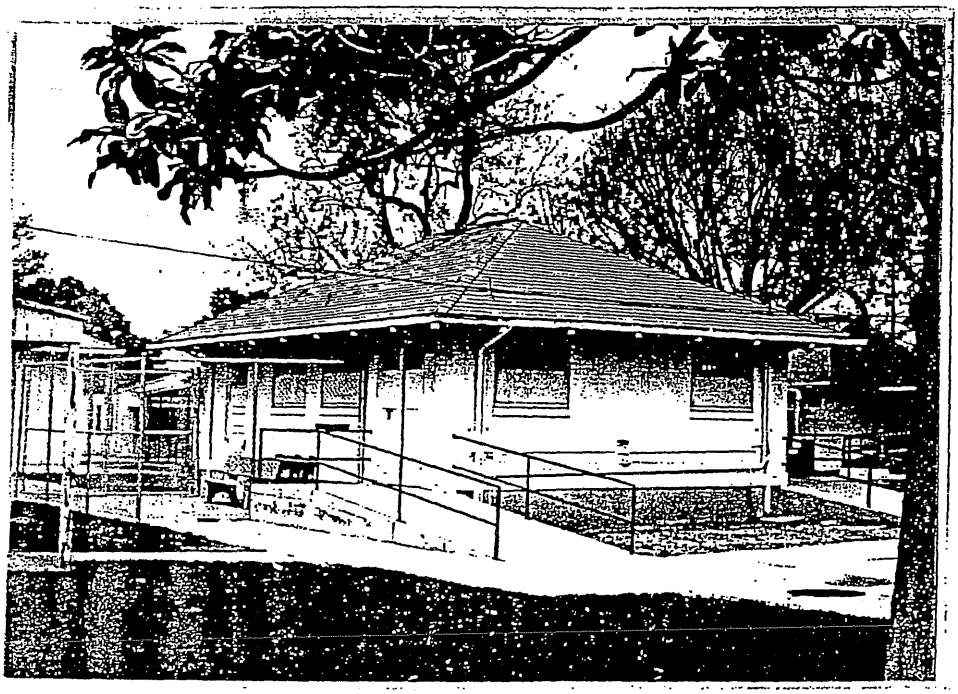
LACO #1204, Building 307 and 308, east elevation; view southwest - Contributing



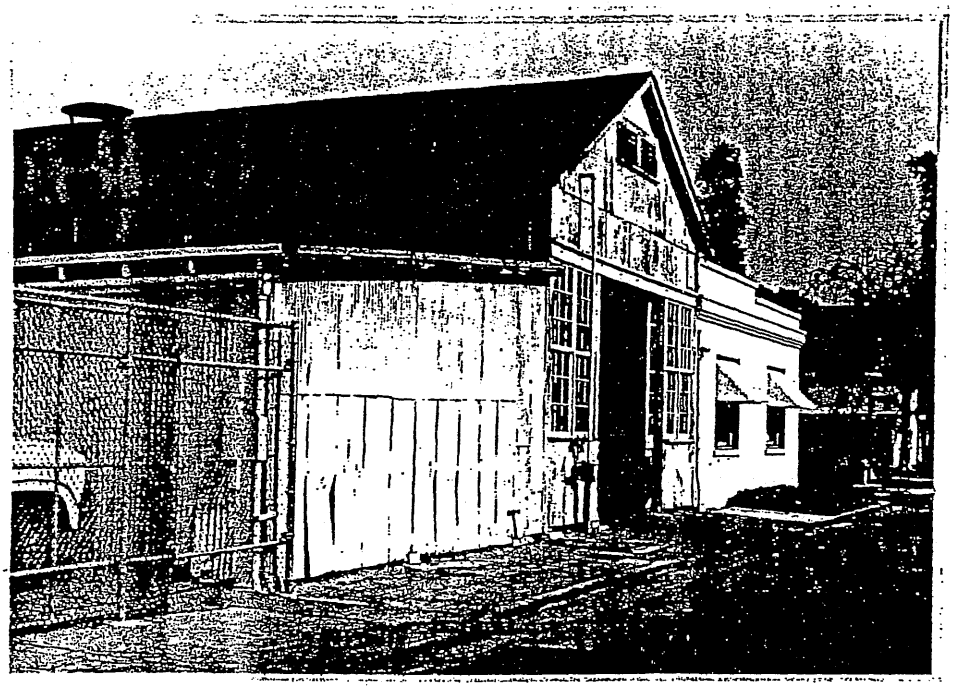
LACO #1204, Building 307 & 308, Ward 307 & 308, north wing courtyard; view northeast - Contributing



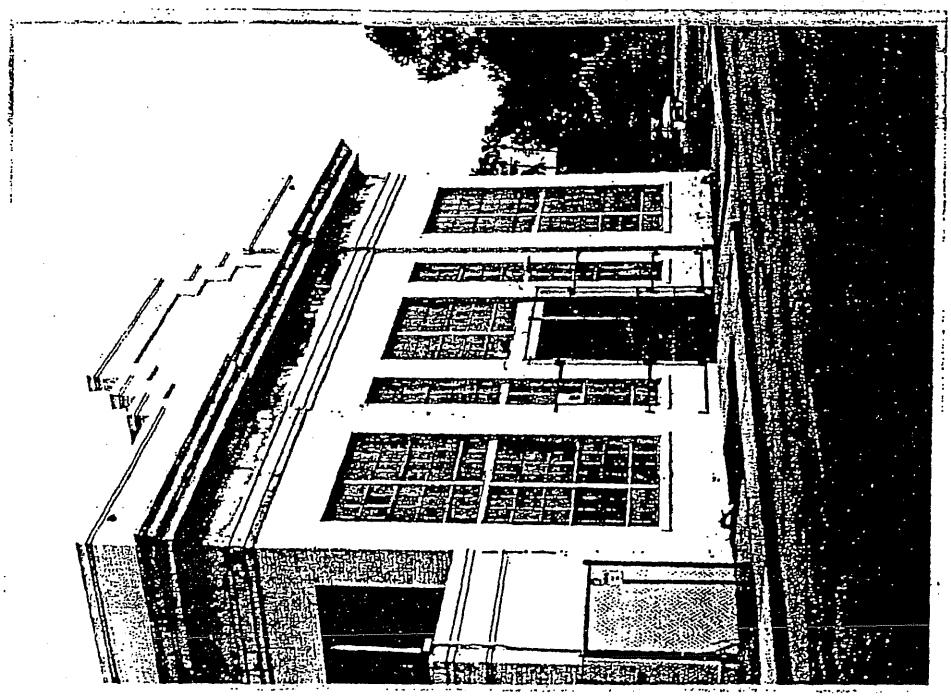
LACO #1204, Building 307 & 308, Ward 307 & 308, north elevation; view southeast - Contributing



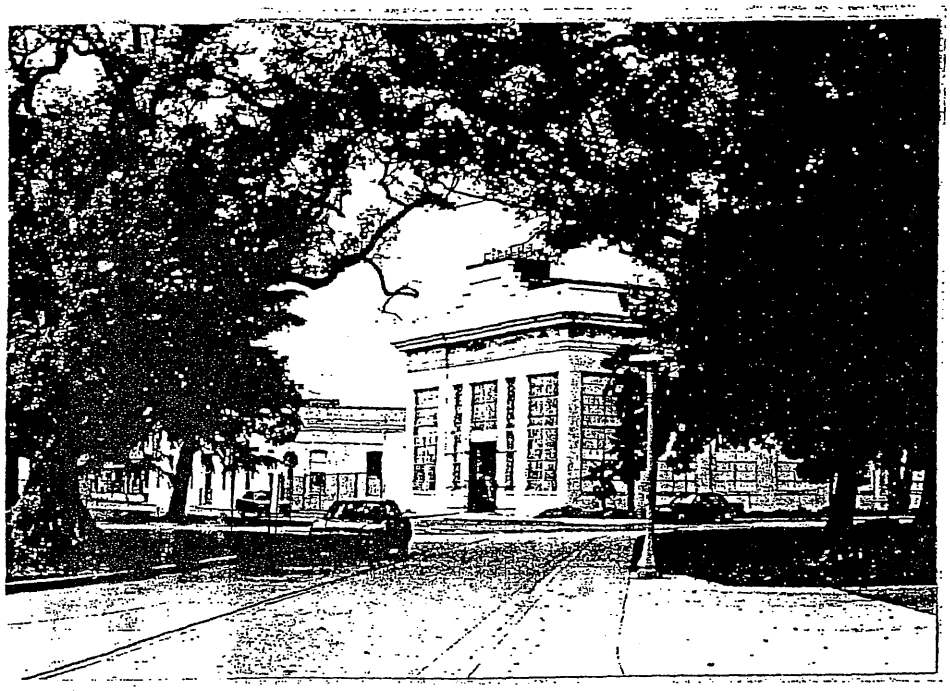
LACO #1247, Toilet Room; view northwest - Contributing



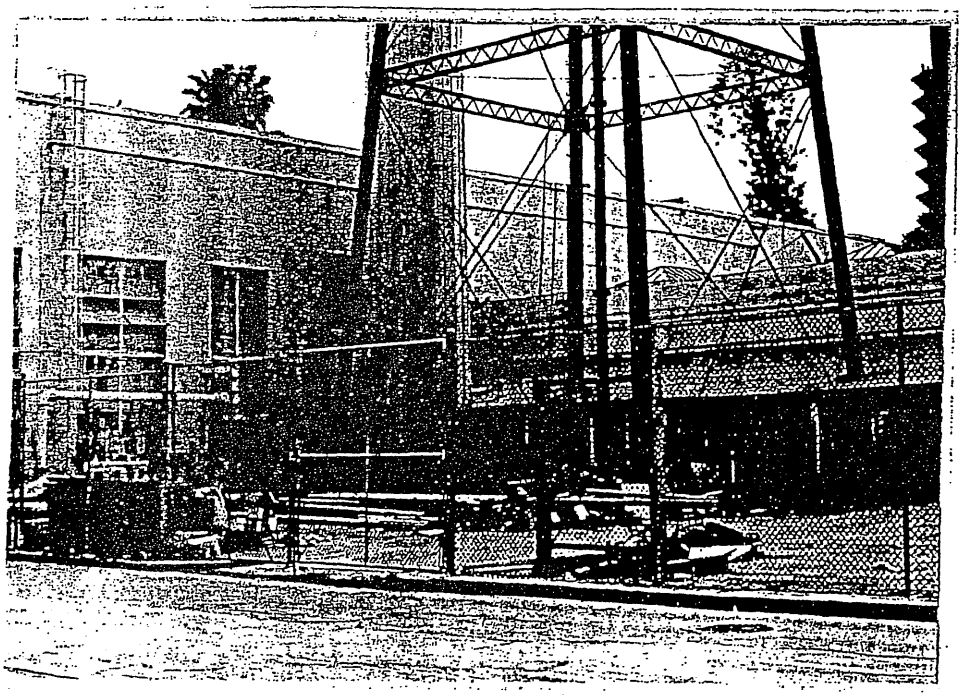
LACO #1277, Carpenter's Office; view northeast - Contributing



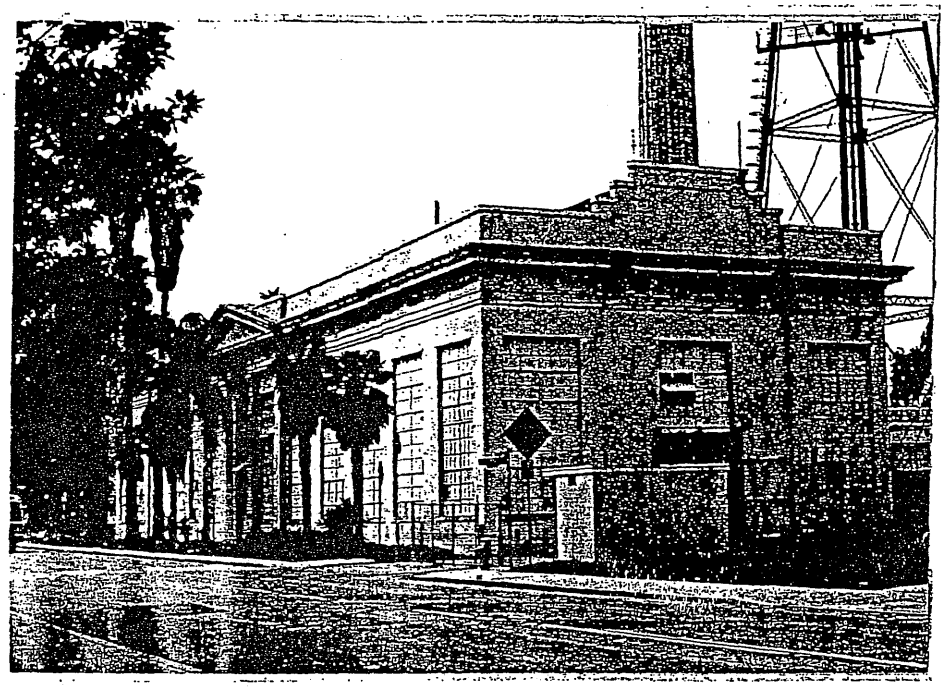
LACO #1300, Storage; view northeast - Contributing



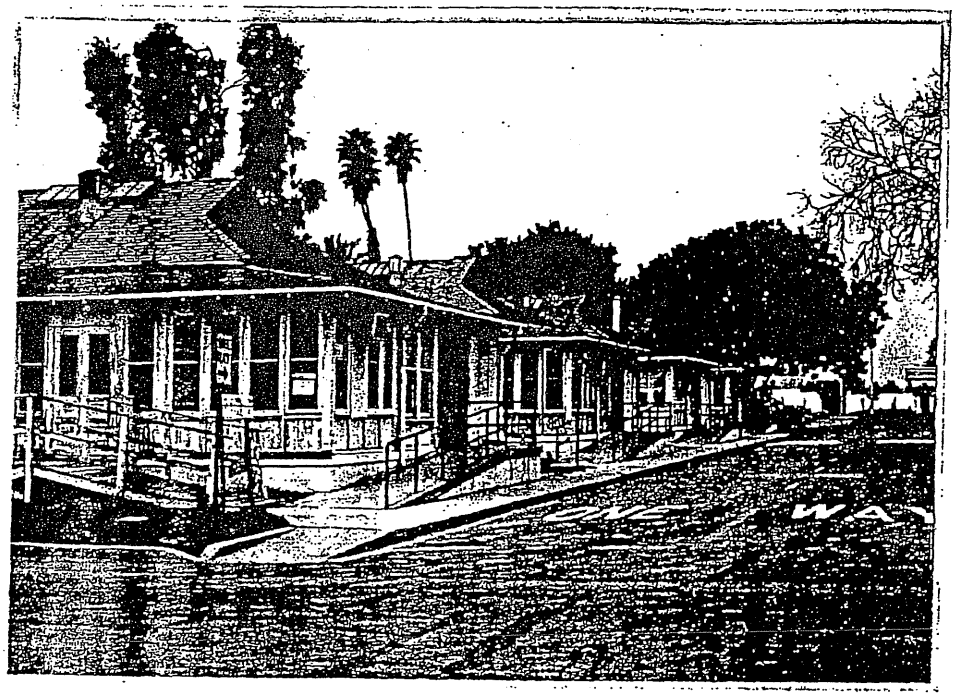
West on Consuelo Street; view west - Contributing



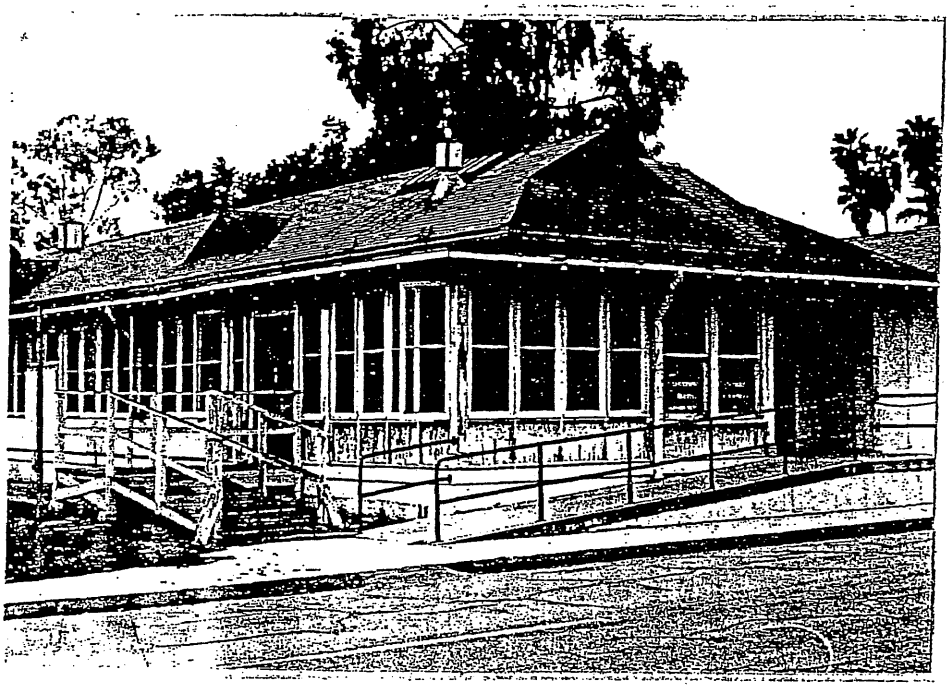
LACO #1300, Storage, left; #1302, Mechanical Shop, right; view southeast - Contributing



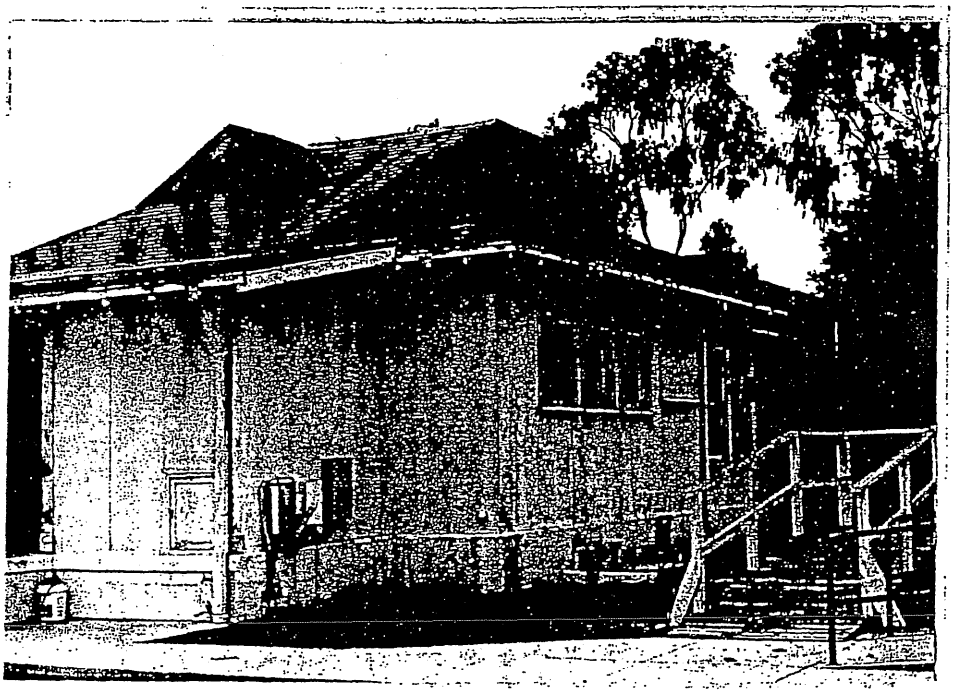
LACO #1300, Storage; view southwest - Contributing



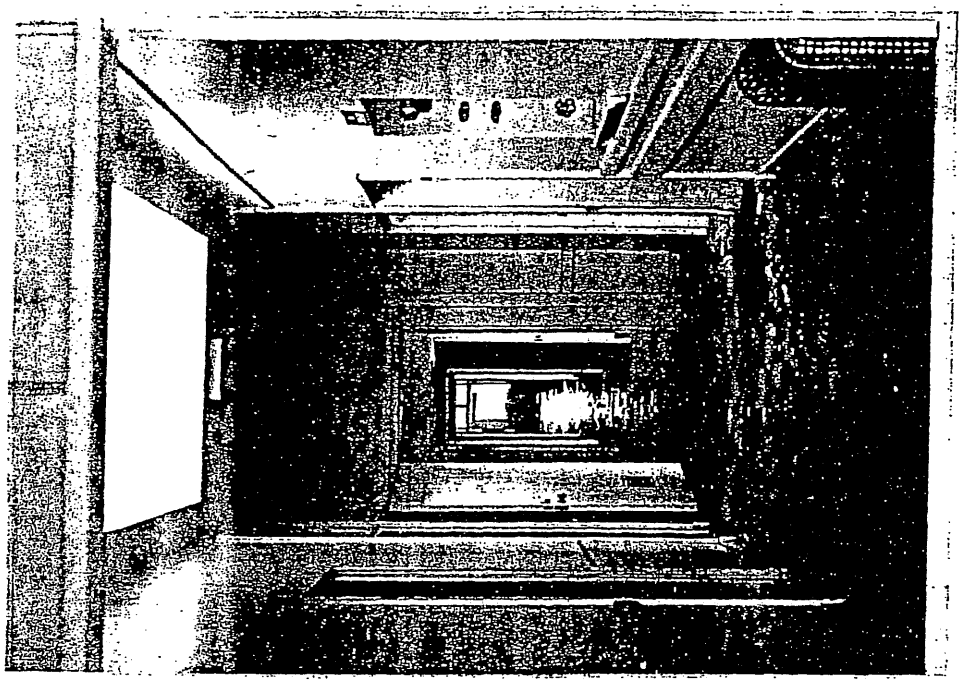
LACO #1198-1201, Buildings 210-214; view west - Contributing



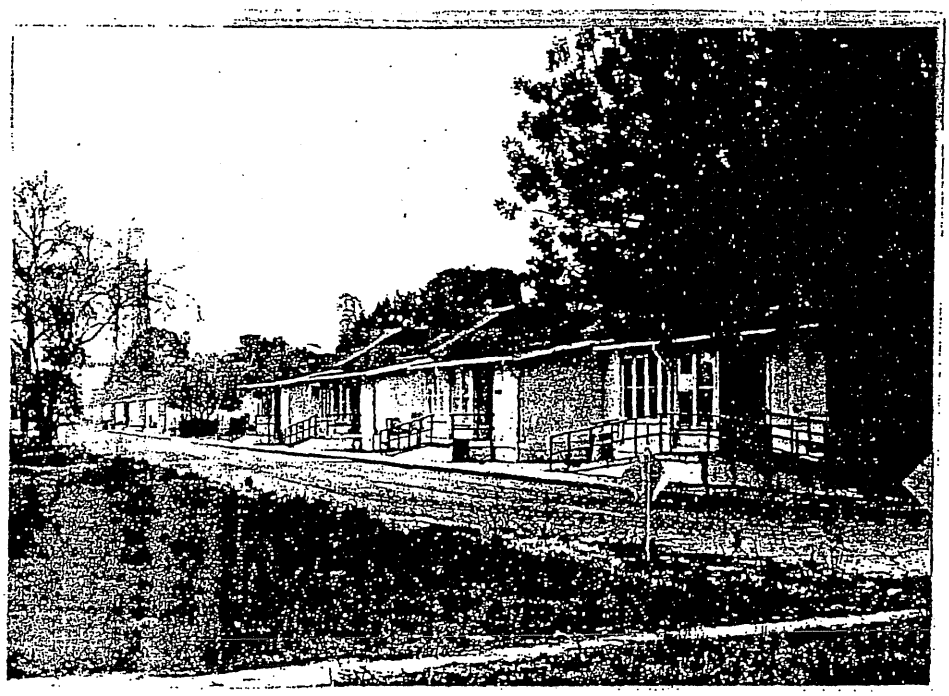
LACO #1199, Building 211, Histopathology Lab; view southwest - Contributing



LACO #1199, Building 211, Histopathology Lab; view southeast - Contributing



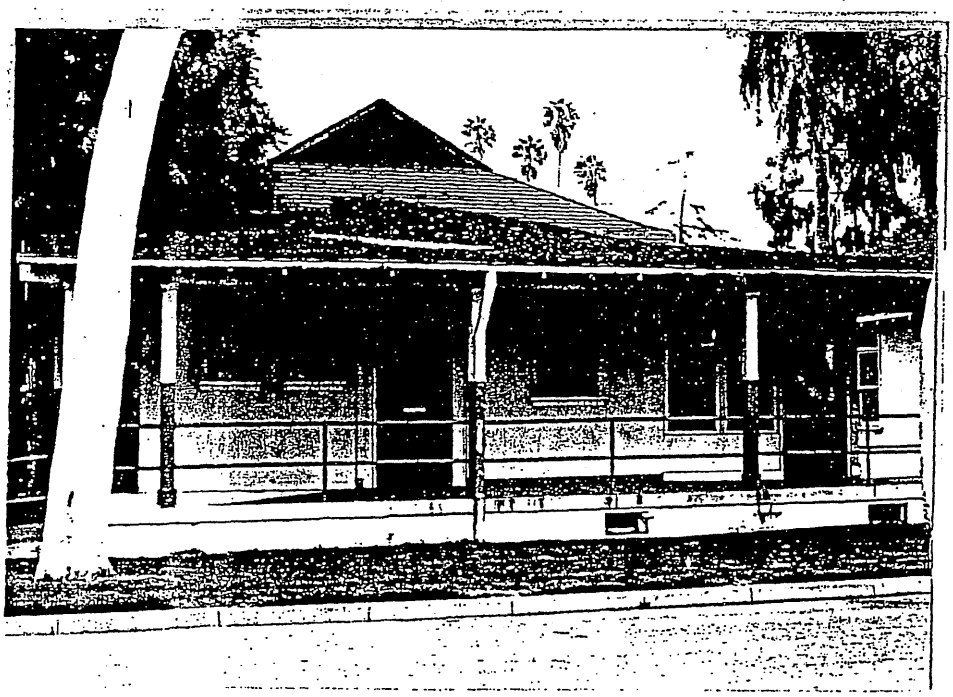
LACO #1200, Building 212, Neuro. Research Lab, Interior; view south - Contributing



LACO #1201-1198, Buildings 214-210; view southeast - Contributing



LACO #1201, Building 214, Vocational Service; view southeast - Contributing



LACO #1201, Building 214, Vocational Service; view north - Contributing



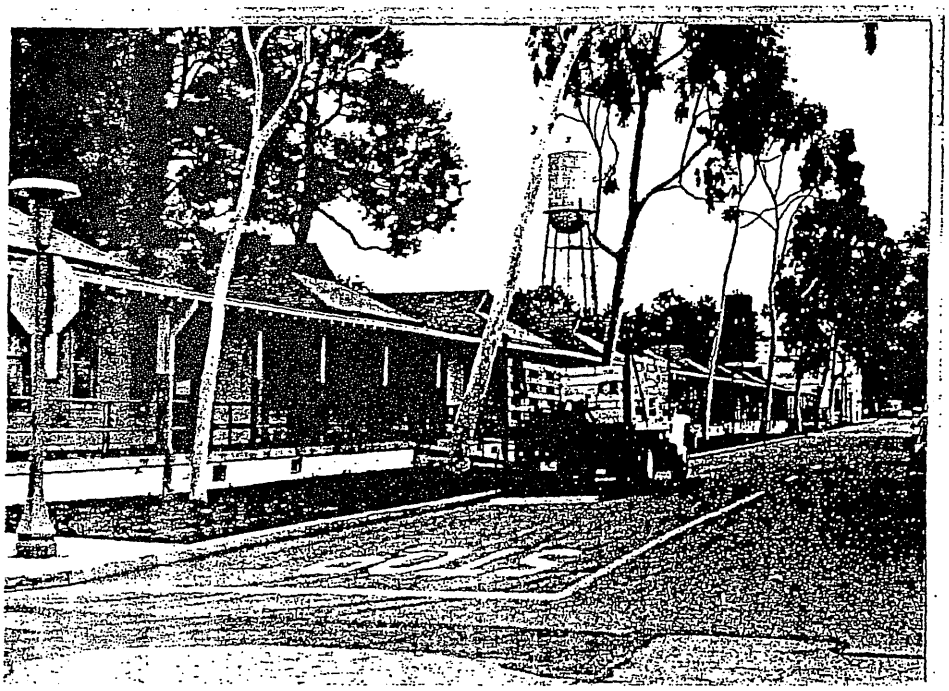
View from Building 208 of corridor at south end of 200 buildings; view east - Contributing



LACO #1201-1198, Buildings 214-210; view northeast - Contributing



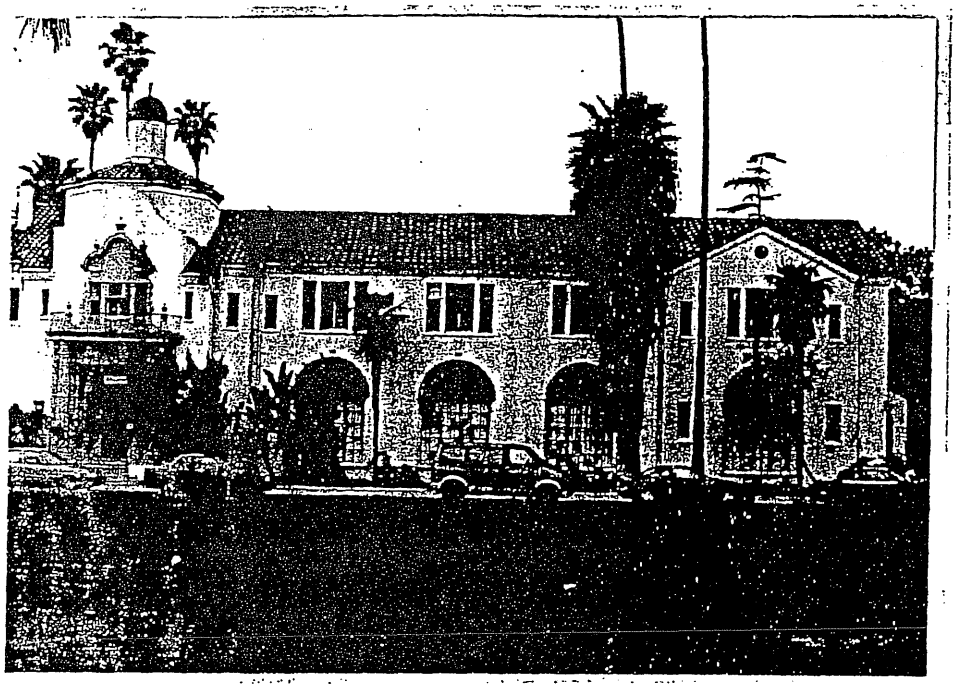
LACO #1201-1198, Buildings 214-210; view northwest - Contributing



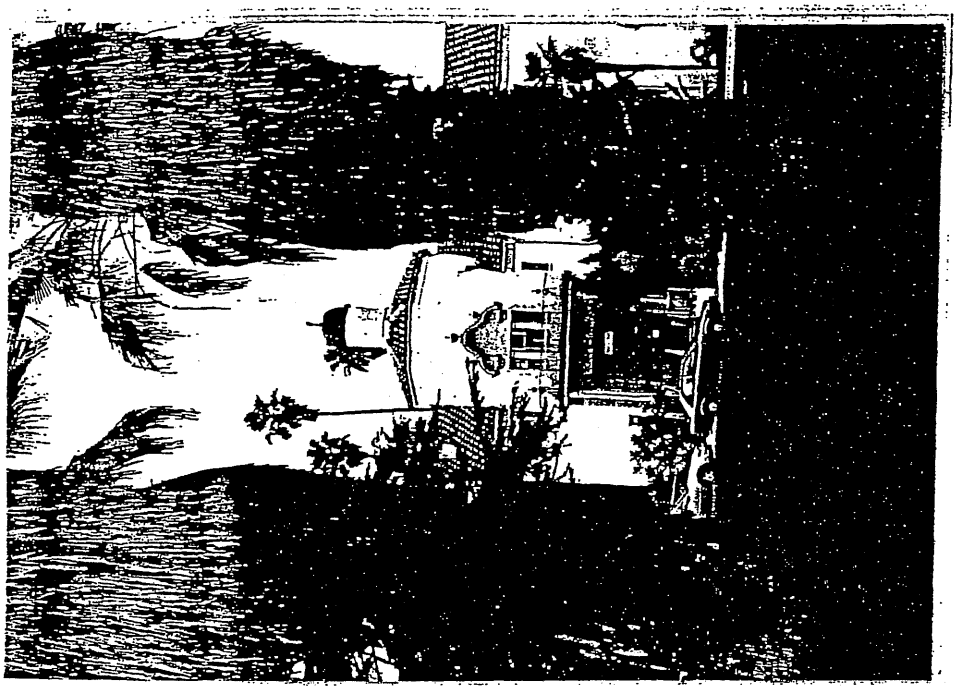
LACO #1197-1189, Buildings 209-201; view northeast - Contributing



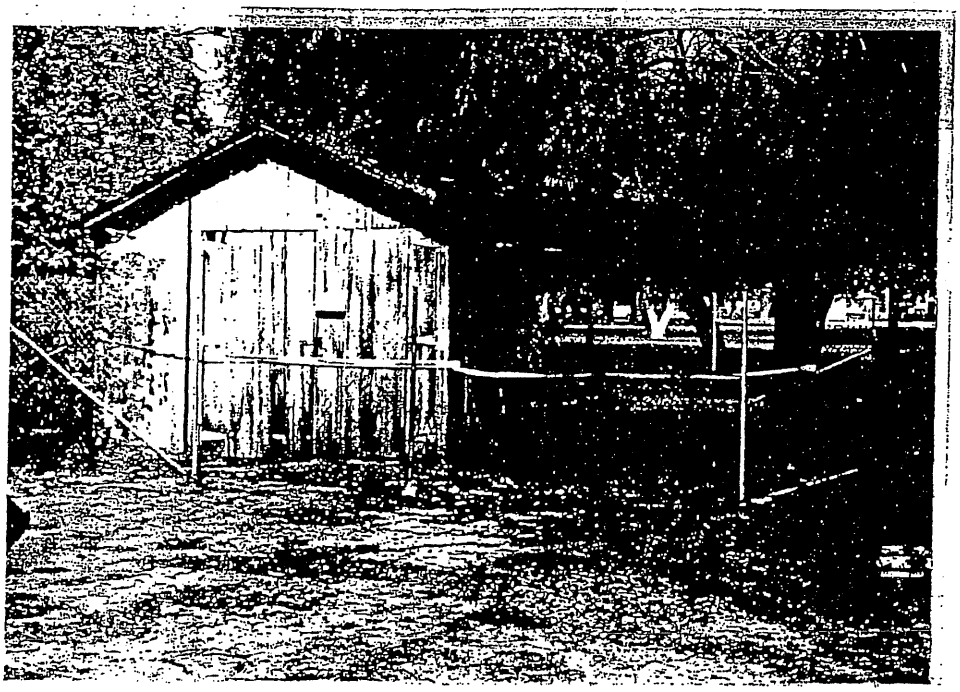
West on Descanso Street, #1275 left, #1278 right; view west - Contributing



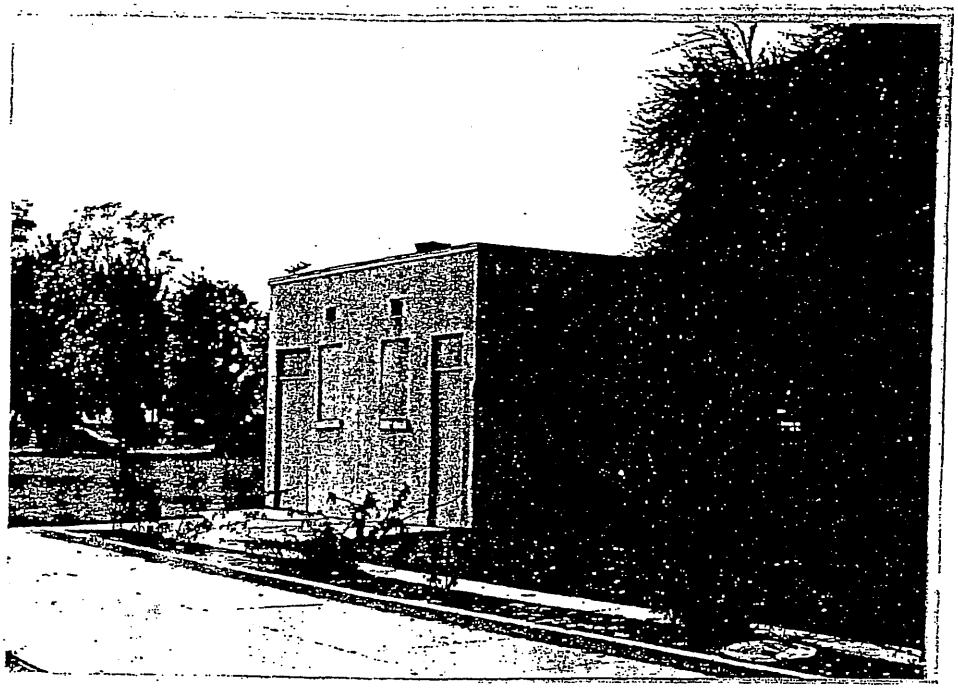
LACO #1100, Business Services; view west - Contributing



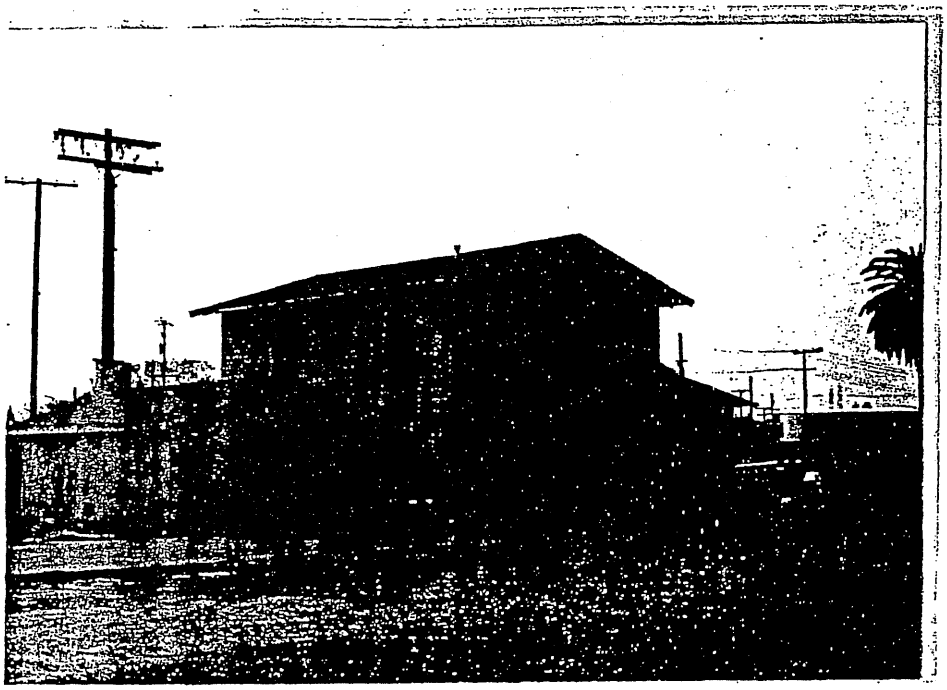
LACO #1100, Business Services; view west - Contributing



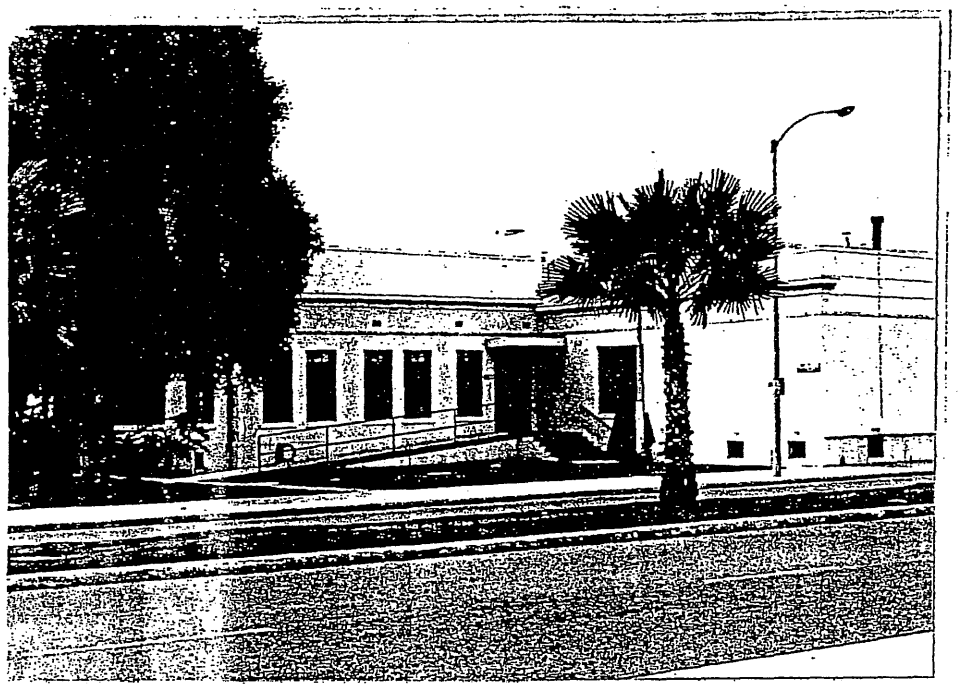
LACO #1179, Garage; view north - Contributing



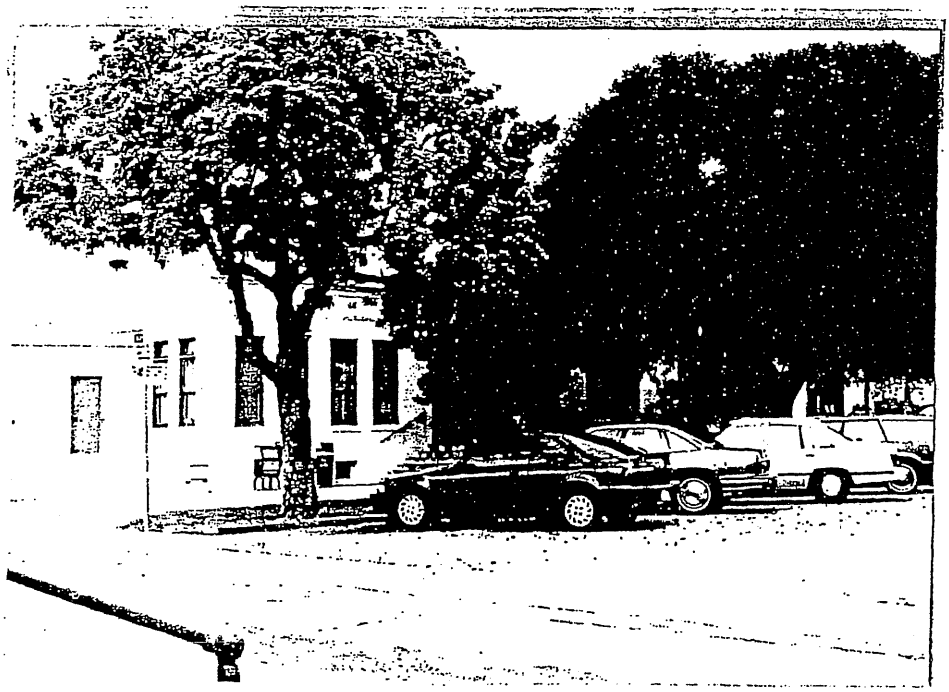
LACO #1256, Restroom, Landscape Storage; view southwest - Contributing



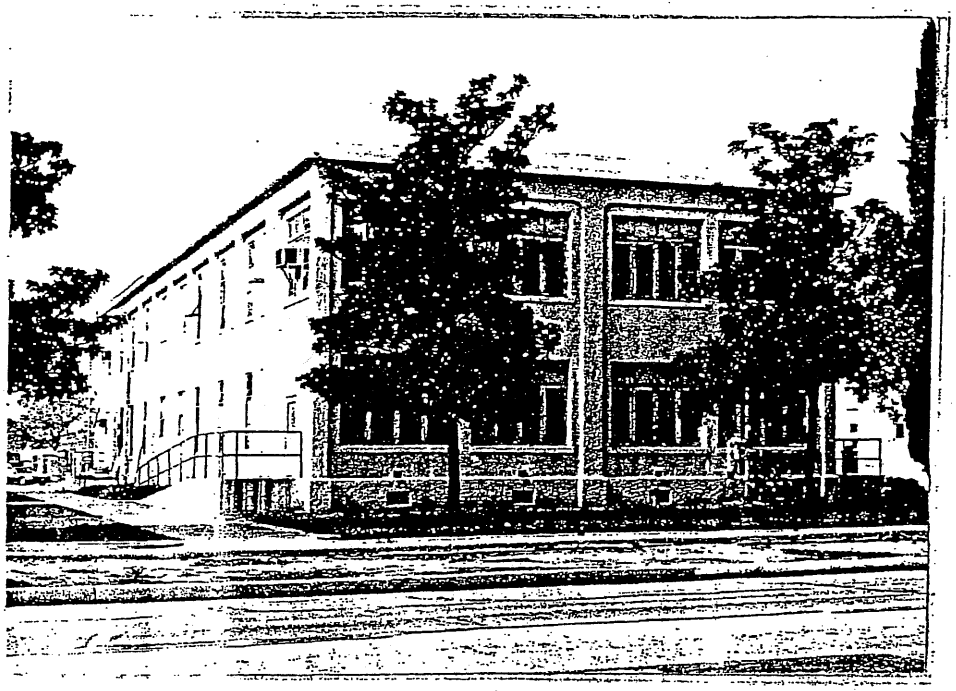
LACO #1334, Vivarium Annex, 1333 at left, 1334 at right, 1335 at rear; view southwest - Contributing



LACO #1295, Main Kitchen; view southwest - Contributing



LACO #1295, Main Kitchen; view northwest - Contributing



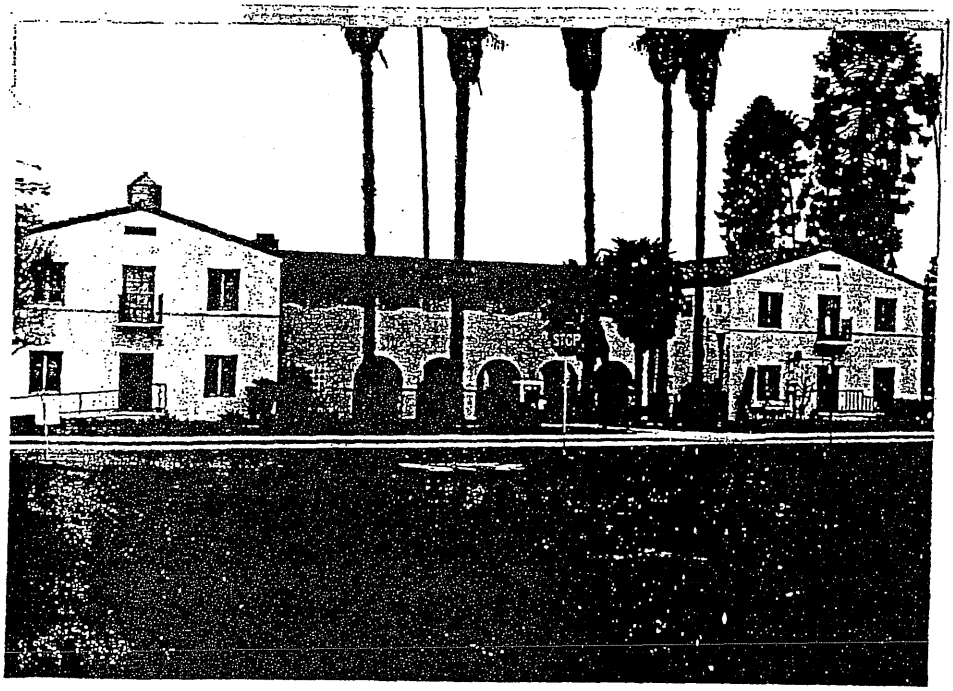
LACO #1188, Building 70, Ward 70; view northwest - Contributing



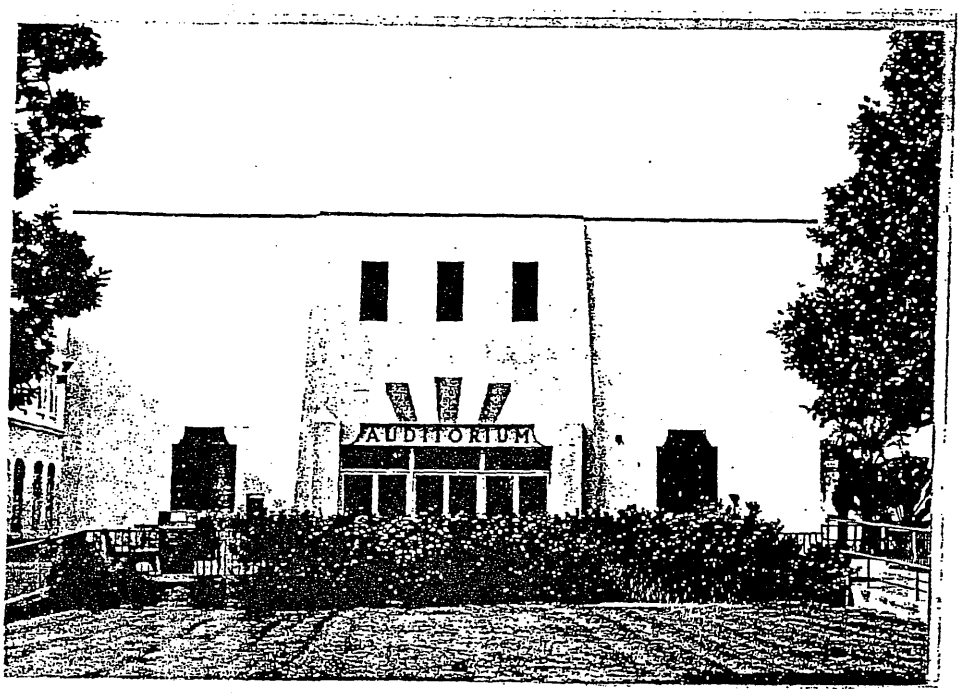
LACO #1188, Building 70, Ward 70 (1187-1184 at rear); view north - Contributing



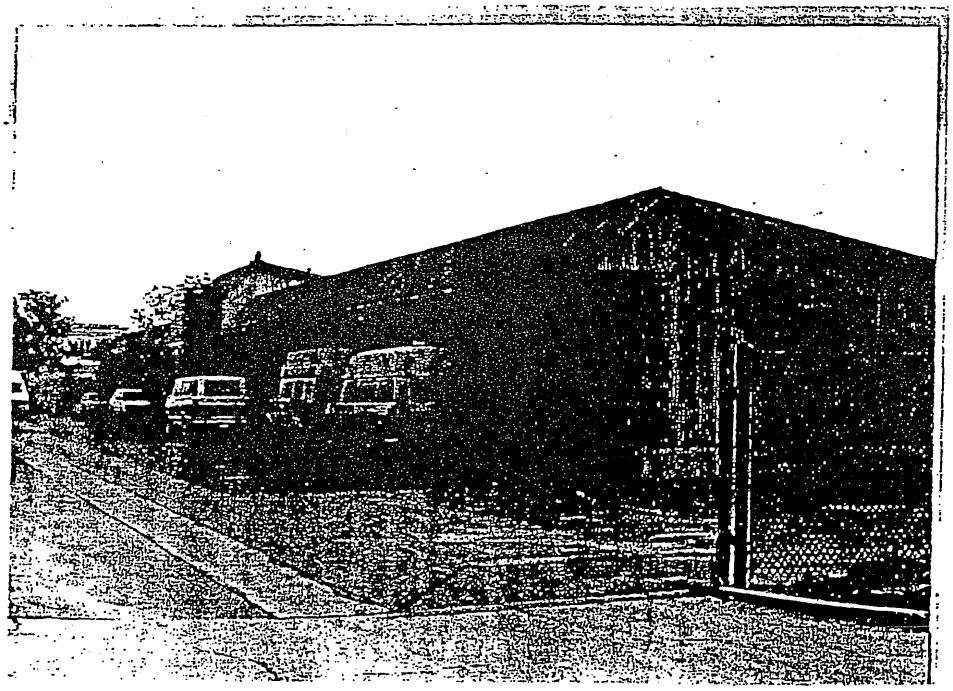
LACO #1238, Casa Consuelo; view northwest - Contributing



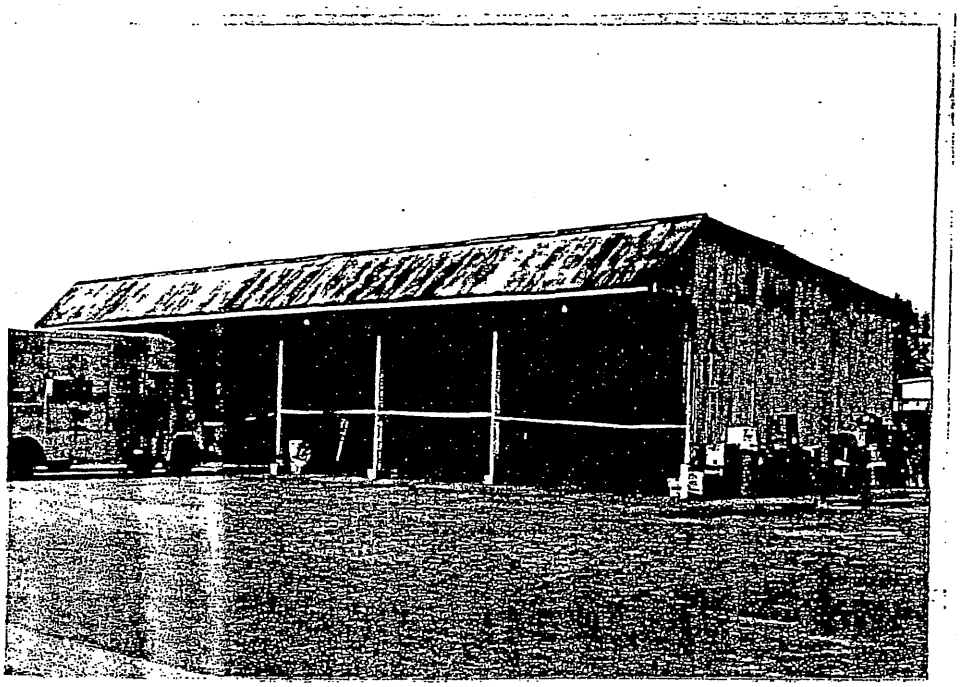
LACO #1238, Casa Consuelo; view northwest - Contributing



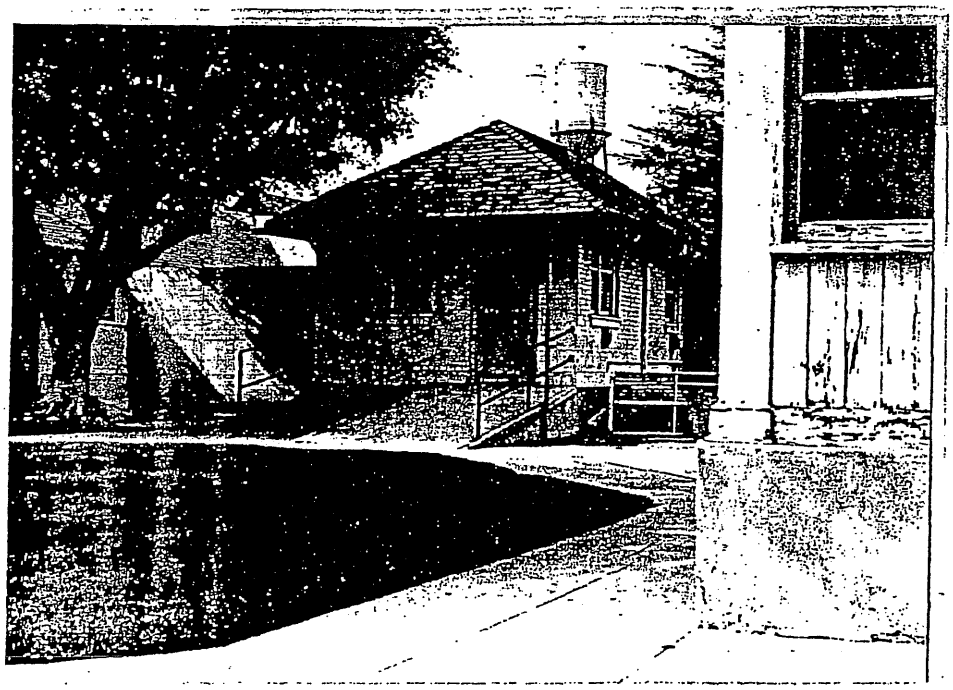
LACO #1261, Auditorium; view west - Contributing



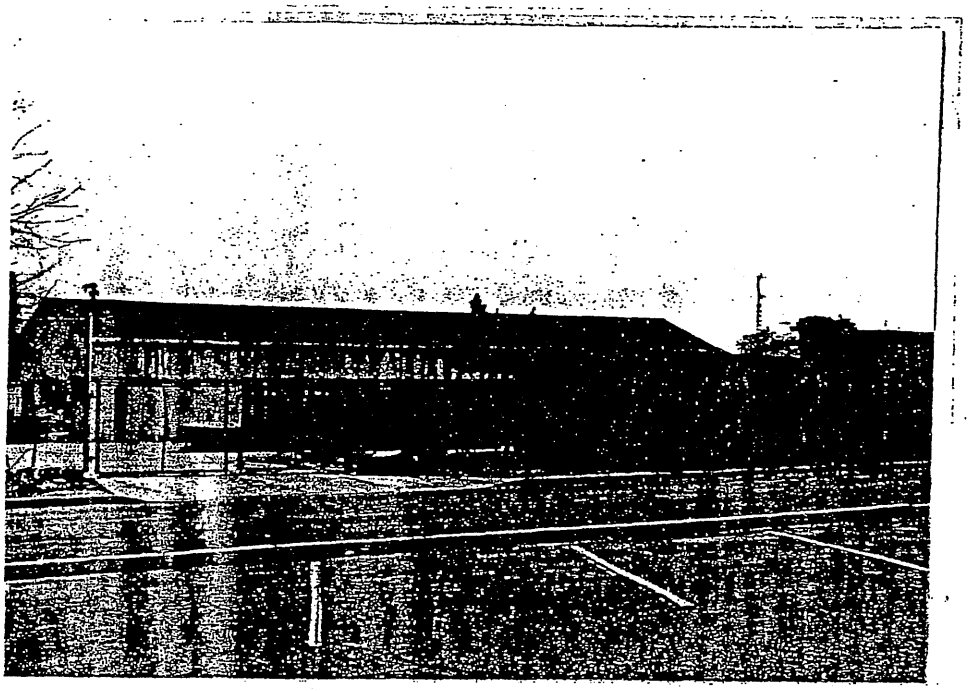
LACO #1379, Auto Shed, right (#4121 at left); view southeast - Contributing



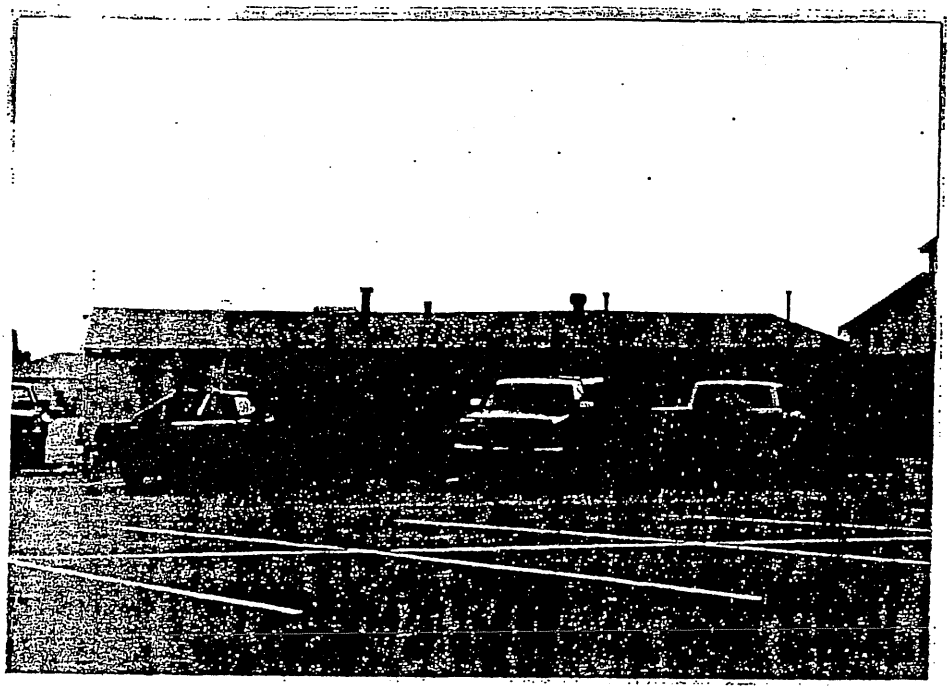
LACO #4118, Garage, Shed; view northwest - Contributing



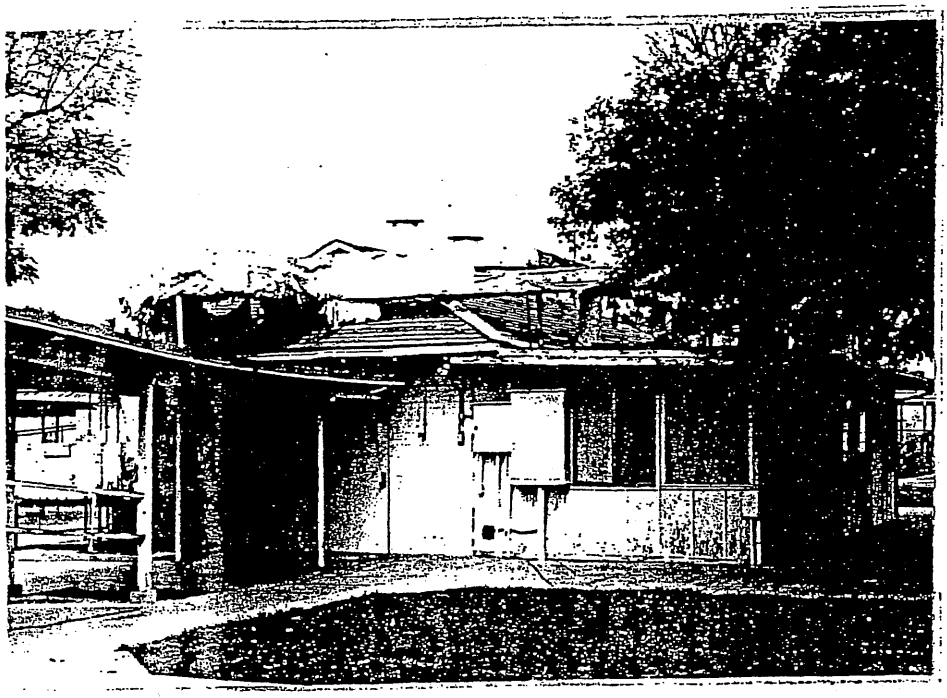
LACO #1239, Volunteer Service; view east - Contributing



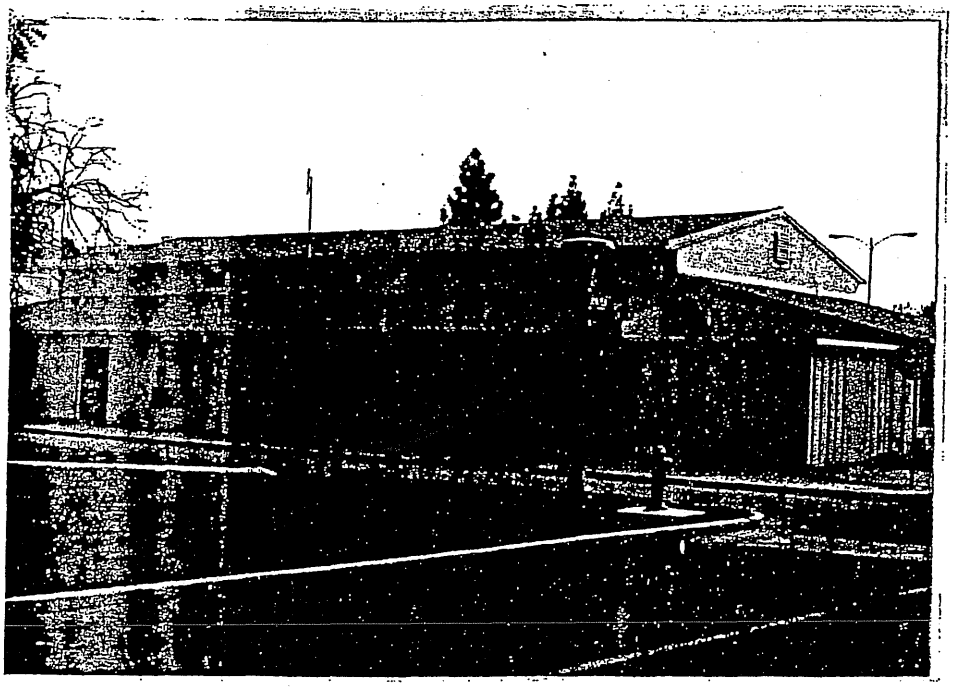
LACO #1272, Shed, foreground; #954, Lumber Shed, background; view southeast - Contributing



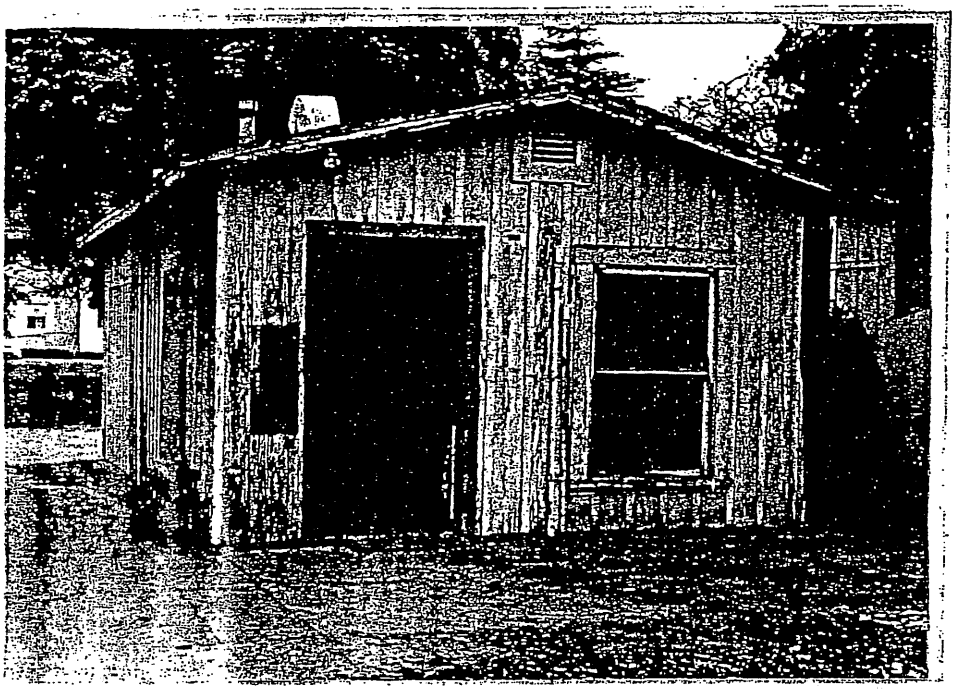
LACO #1259, Wheel Chair Repair, Sign and Locker Room; view south - Contributing



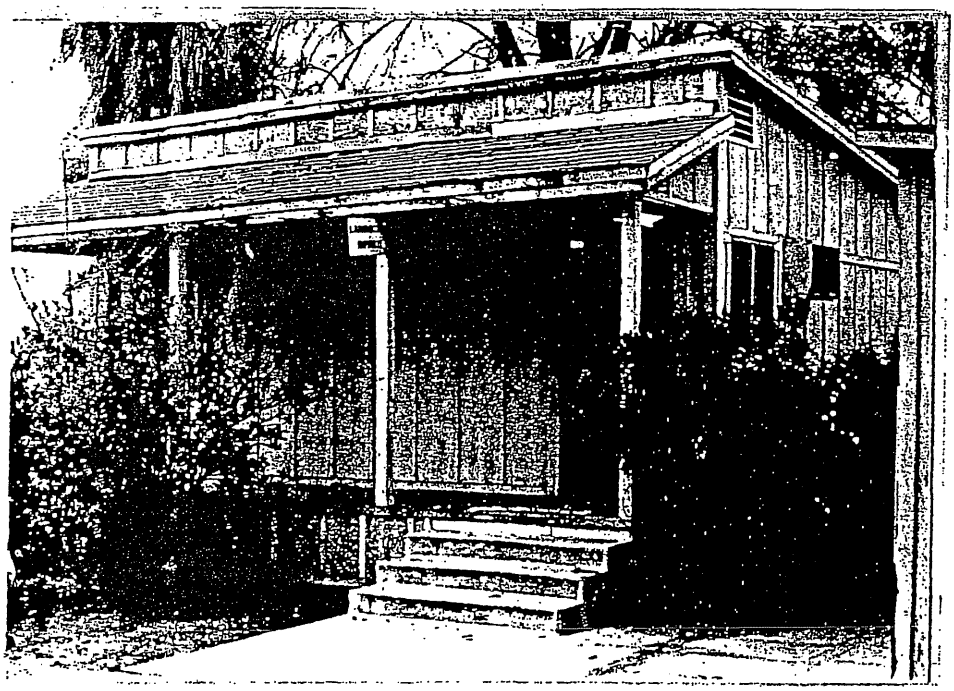
LACO #1245, Snack Bar #3; view north - Contributing



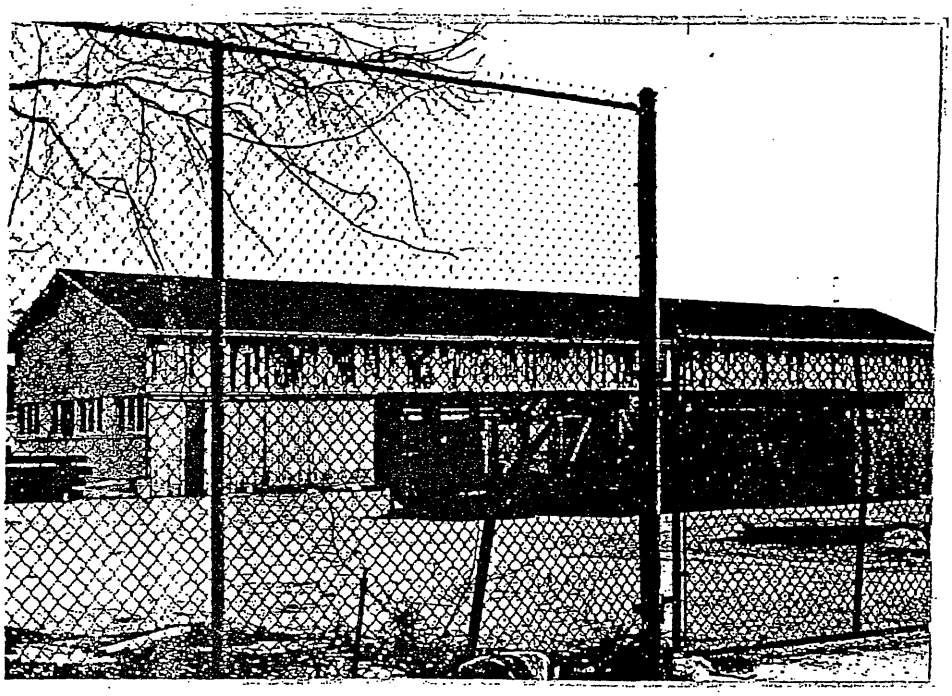
LACO #1264, Bonita Hall, Prosthetic Shop; view southeast - Contributing



LACO #1356, Tool House; view east - Contributing



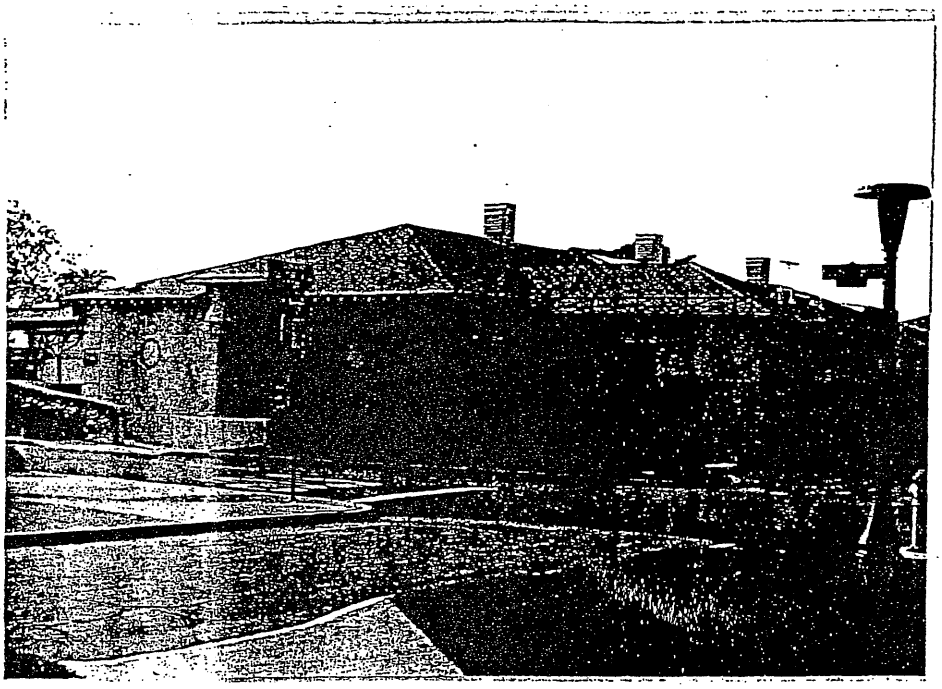
LACO #1357, Landscape Office, Nursery Office; view west - Contributing



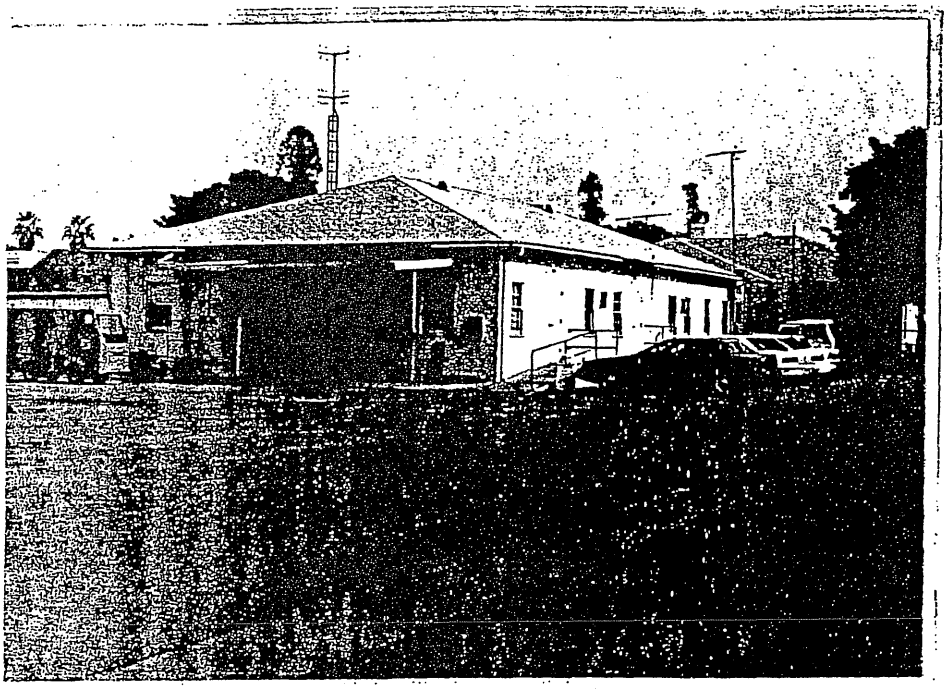
LACO #954, Lumber Shed; view southeast - Contributing



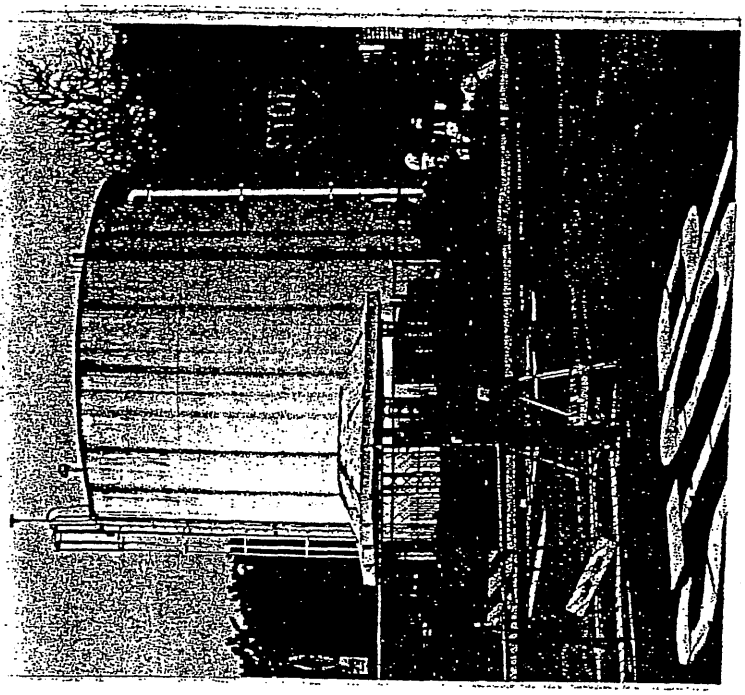
LACO #954, Lumber Shed; view north - Contributing



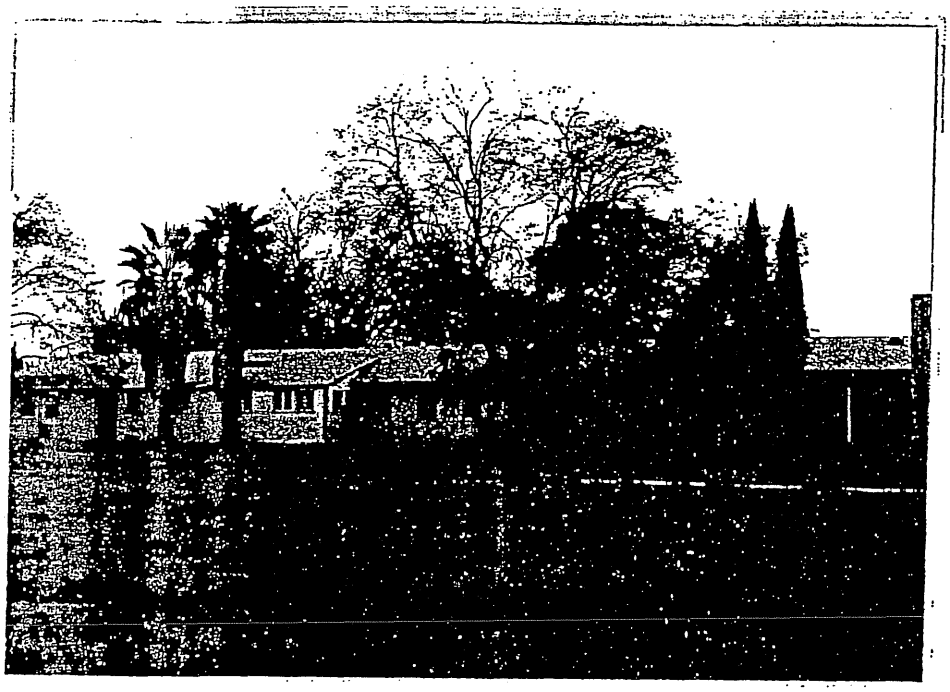
LACO #1266, Crafts Center, Amigos Hall; view southwest - Non-contributing



LACO #1267, Transportation Office; view northeast - Non-contributing



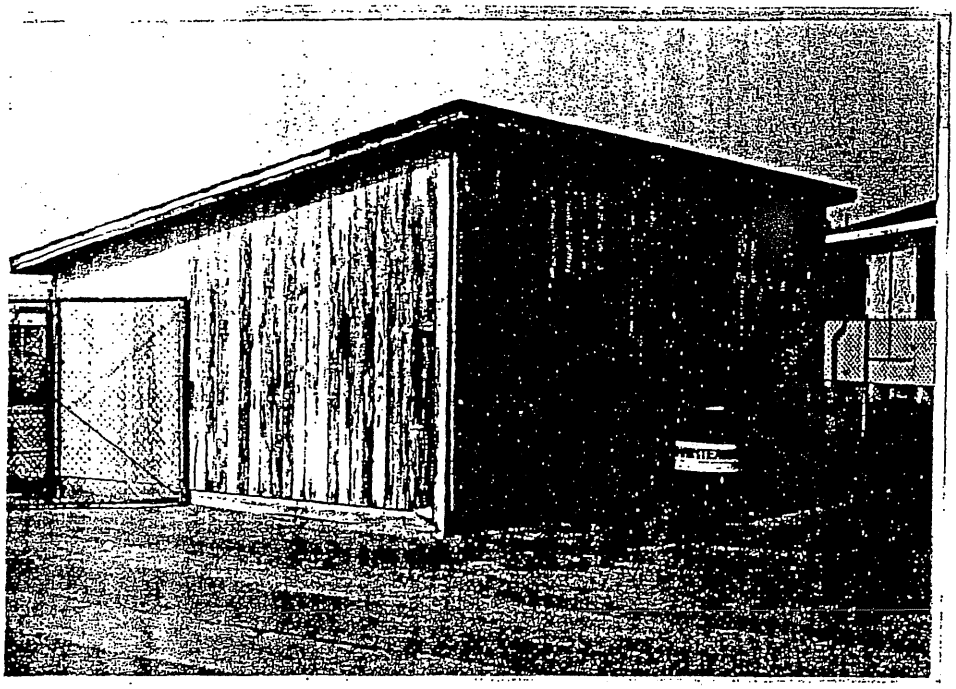
LACO #1292, Pump House, foreground; #5547, 200,000 gallon Water Tank, background; view northwest - Non-contributing



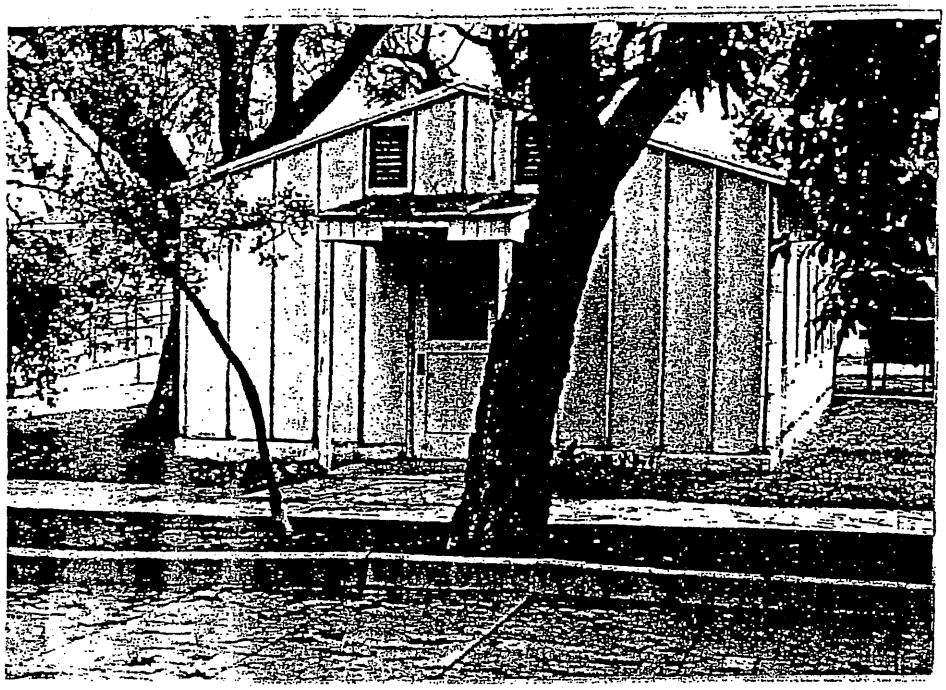
LACO #590, Vocation Training; view south - Non-contributing



LACO #590, Vocation Training; view southwest - Non-contributing



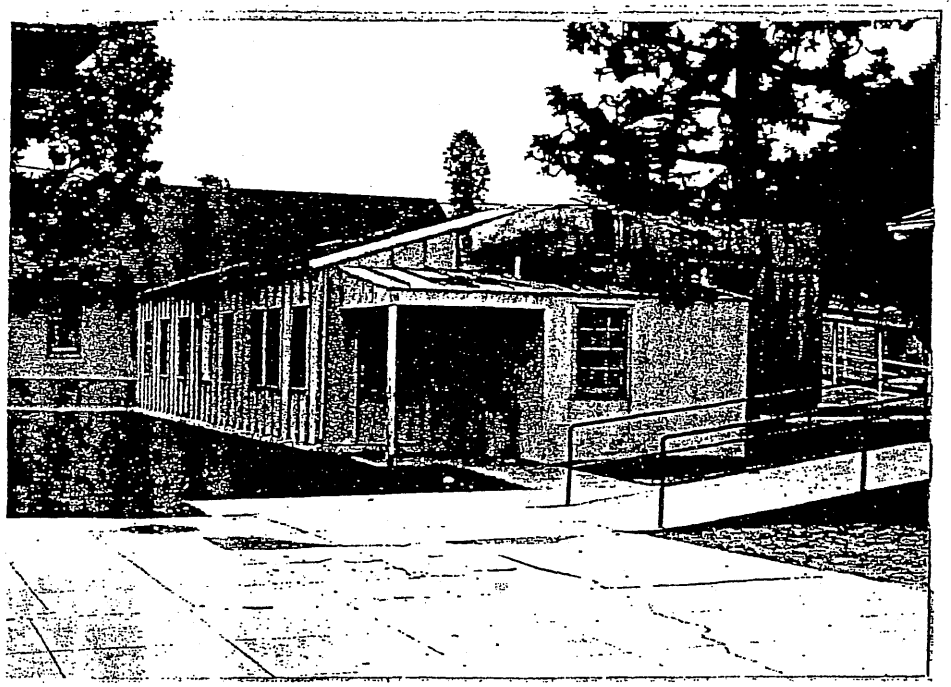
LACO #1464, Shed; view northwest - Non-contributing



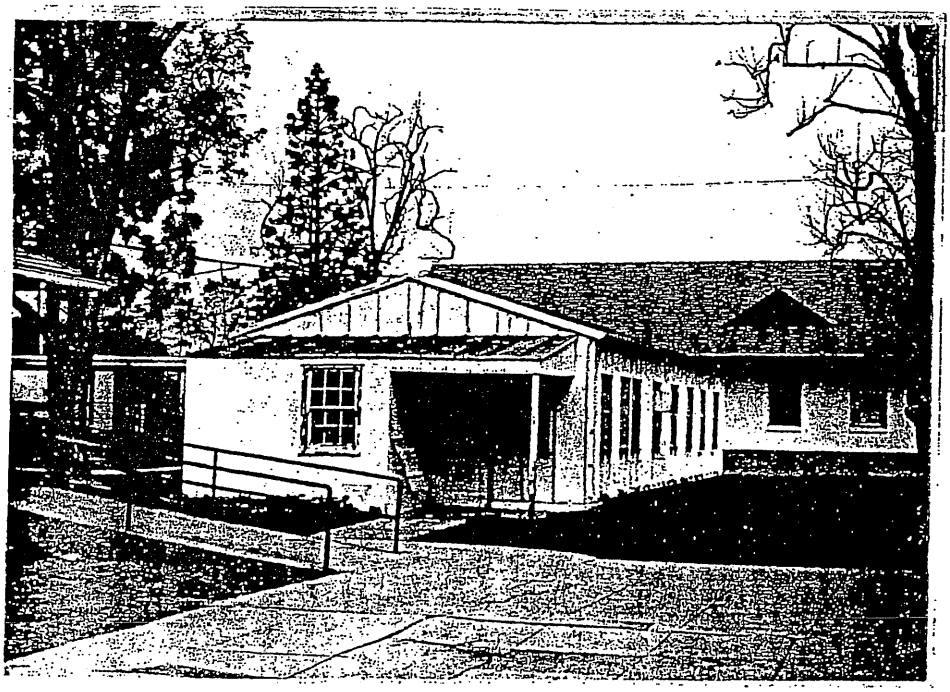
LACO #2434, Shed, Men's Gym; view east - Non-contributing



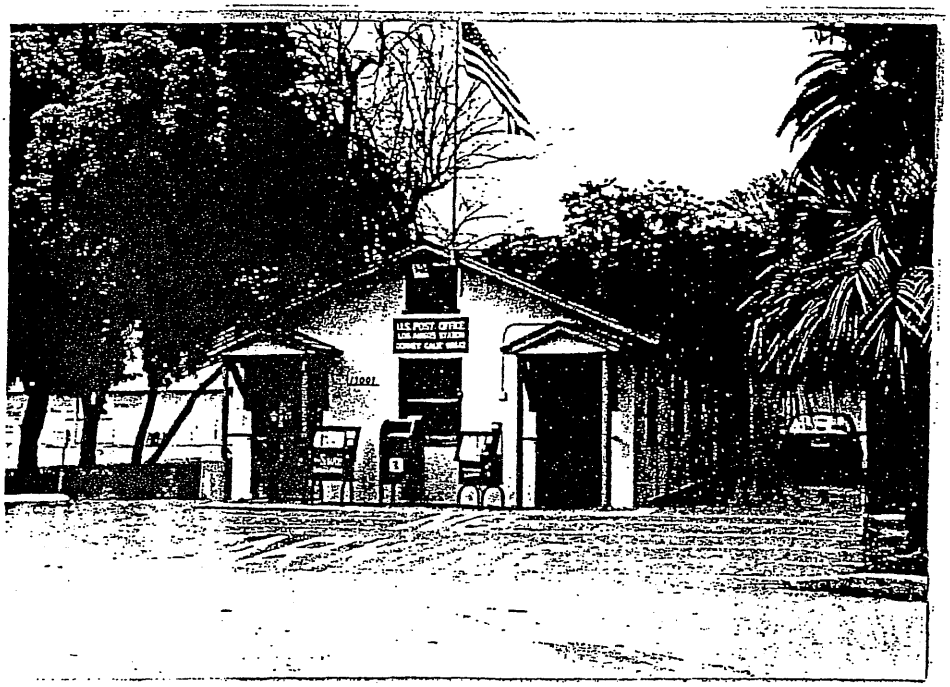
LACO #2435, Shed; view northwest - Non-contributing



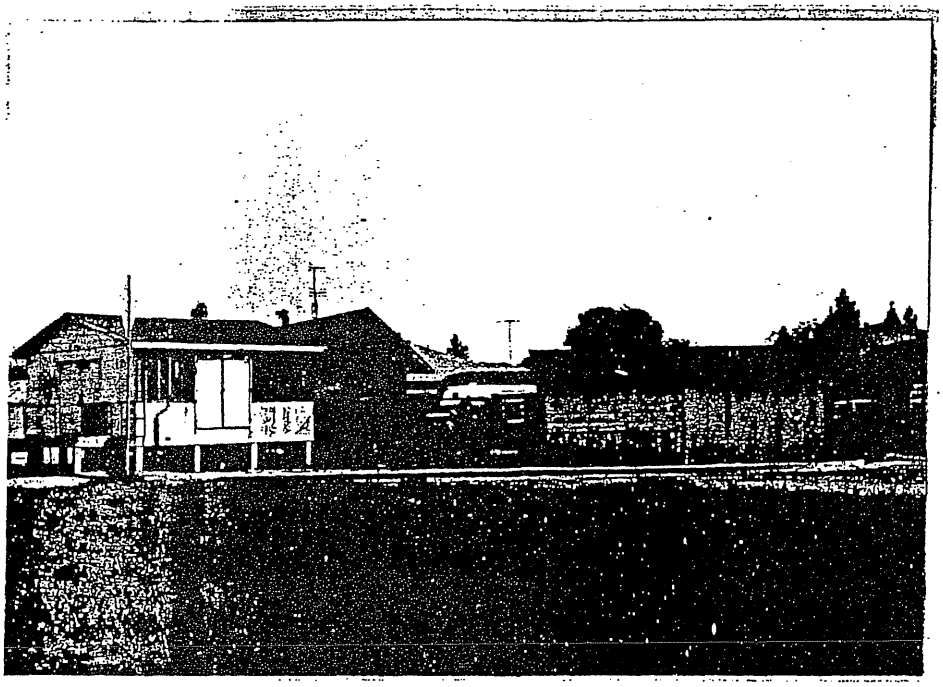
LACO #2436, Shed; view south - Non-contributing



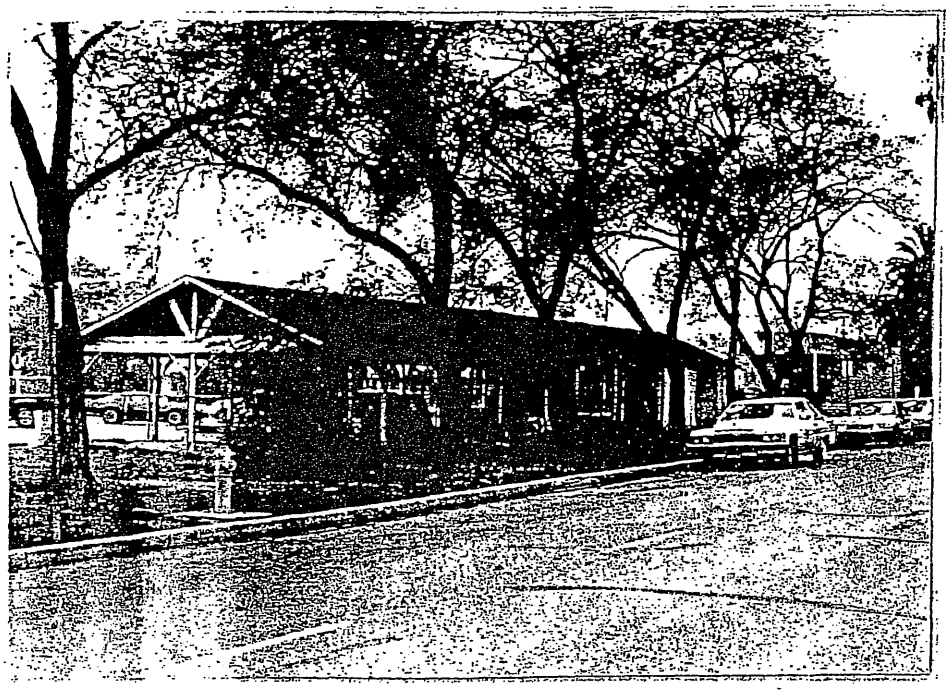
LACO #2437, Shed; view north - Non-contributing



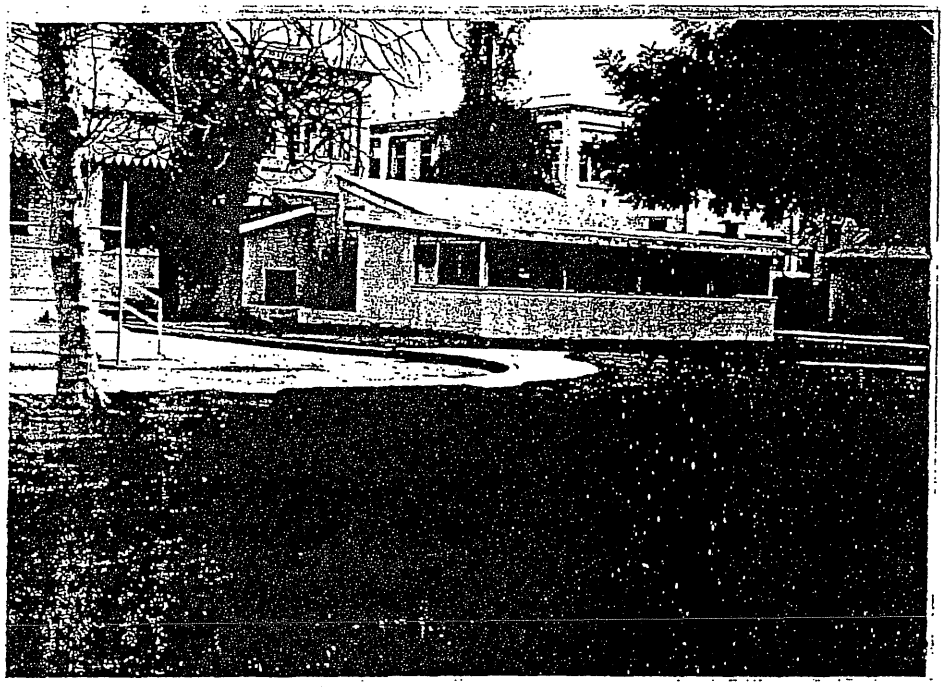
LACO #2677, Post Office; view west - Non-contributing



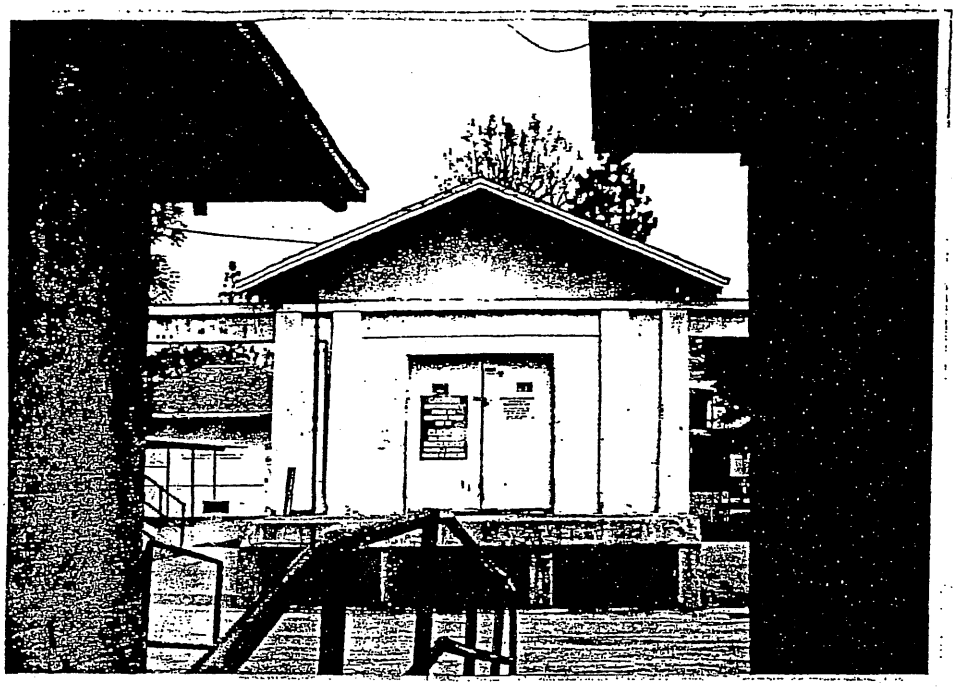
LACO #3348, Garbage Can Room, left; #1464, Shed, right; #4118, Garage, shed, rear; view east - Non-contributing



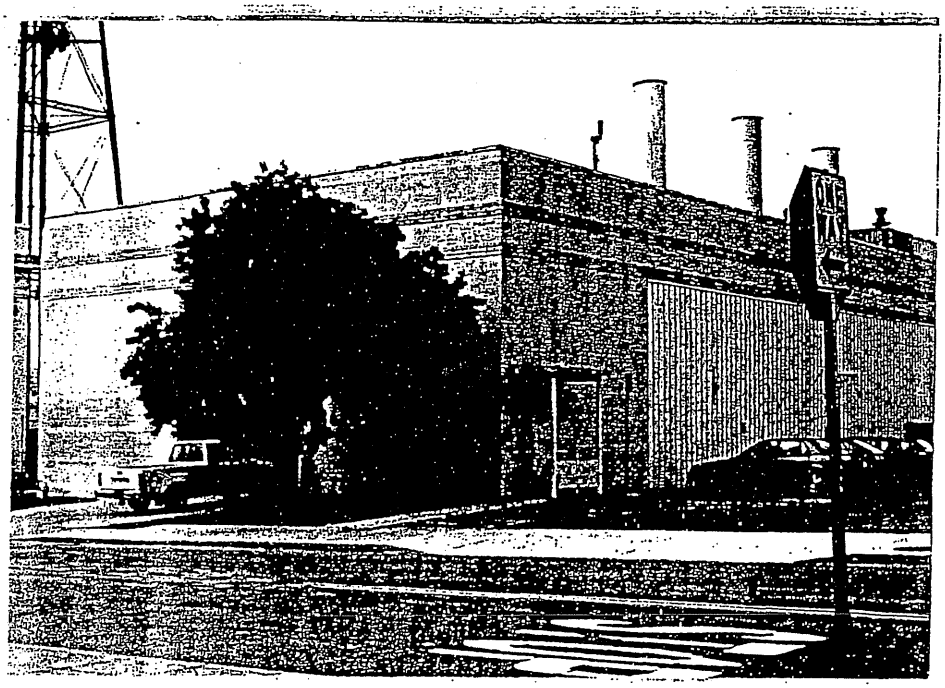
LACO #1290, Shelter; view southwest - Non-contributing



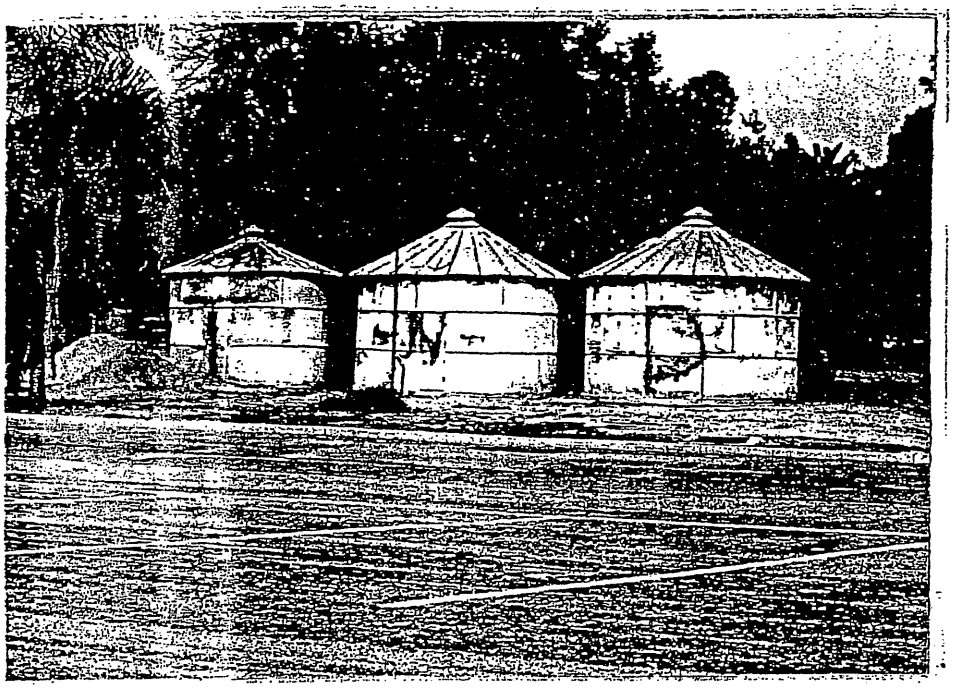
LACO #3390, Prosthetic Shop; view southwest - Non-contributing



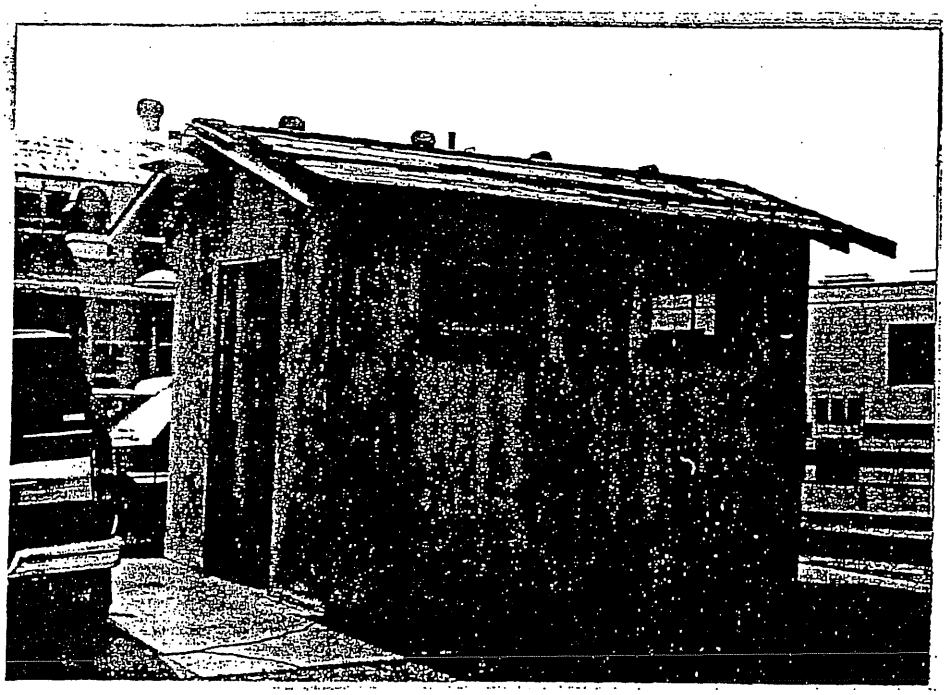
LACO #3820, Loading Dock; view north - Non-contributing



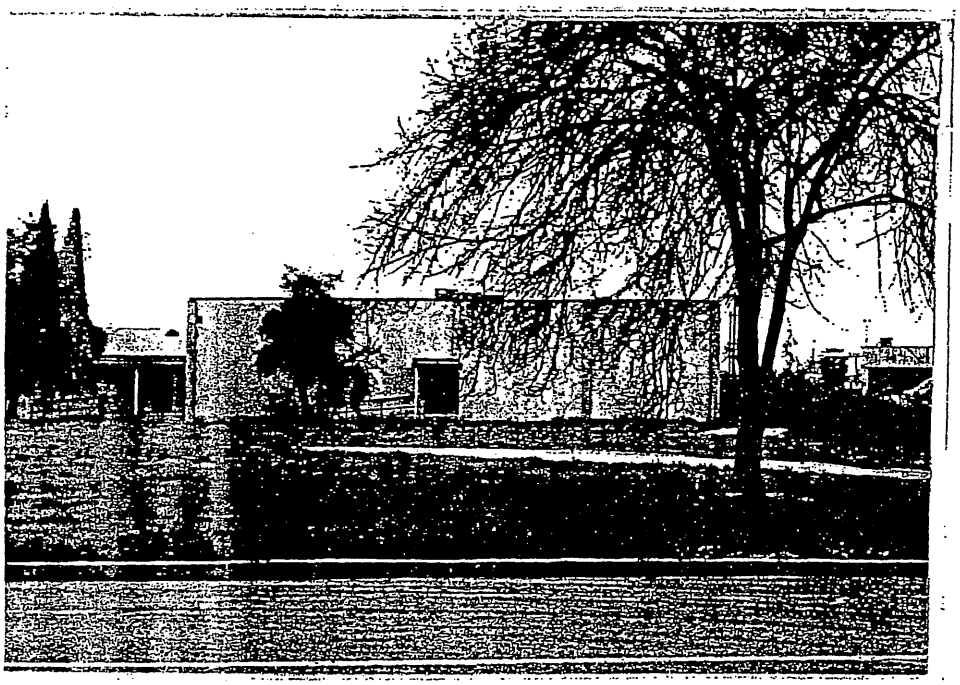
LACO #5548, Steam Plant; view southwest - Non-contributing



LACO #1284, Tanks; view north - Non-contributing



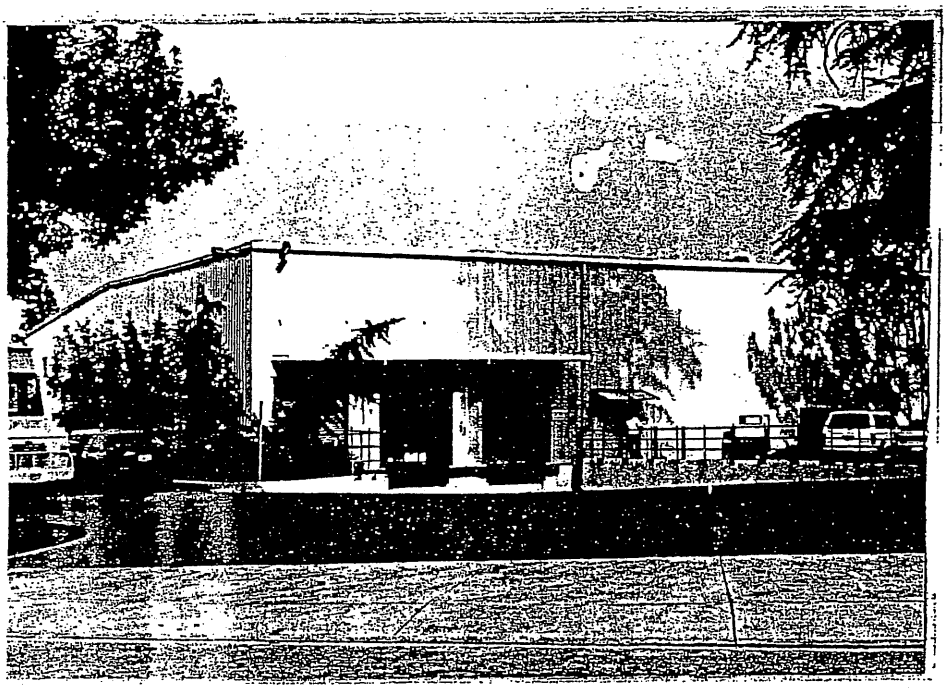
LACO #2492; view southwest - Non-contributing



LACO #5750, Work Prep Center No. 1; view south - Non-contributing



Credit Union; view southwest - Non-contributing



Butler Building; view east - Non-contributing

LA CO. DEPT OF HEALTH SERVICES 037-91025

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Rancho Los Amigos Medical Center

Contributing Buildings

Common Name	LACO #	Const. Date
Aviary (in courtyard of Bldg. 304) S044	~~unk.~~	1888
Residence	1137,	1907
Train Station, Supply Warehouse	1352	1907
Computer Center	1254	1908
Pest Control	1287	1909
Print Shop and Record Storage	1262	1911
Mechanical Shop EQUIP. WAREHOUSE	1302	1911
☆ Harriman House	1101	1913
Building 30	1184	1913
Building 40, Ward 40 FINANCIAL SERV.	1185	1913
Receiving	1263	1913
√ Lock Shop, Office, Storage	1276	1913
√ Steel Tank and Tower	1301	1913
√ Building 50, Ward 50 - FINANCIAL SERV.	1186	1916
Building 303 and 304	1205	1916
Open Shelter	1243	1916
Toilet Room	1244	1916
Open Shelter	1251	1916
Garage	1177	1917
Shops, Master Mechanic, Carpenter, Paint	1275	1917
Building 301 and 302	1203	1920
Garage, Storage	1286	1920
Office Suite	1121	1921
Building 201, General Service	1189	1922
Building 202, Housekeeping	1190	1922
Building 203, Hospital Purchasing	1191	1922
Building 204, Snack Bar #1	1192	1922
ENR Building 20, Storage - PHARMACY HSE	1260	1922
Trunk Storage	1283	1923
Building 205, Rec. and Vol. Service	1193	1924
Building 206, Dietary Office	1194	1924
Building 207, Storage 207	1195	1924
Building 208, Classroom 208	1196	1924
☆ Residence	1123	1924
Garage and Storage	1278	1924
Work Prep. Center No. 2, Vocational Training	1207	1925
Building 305 and 306, Drug Abuse Rehab. Center	1202	1925
√ Building 307 and 308, Ward 307 and 308	1204	1925
Toilet Room	1247	1925
Carpenter's Office	1277	1925
Office	1279	1925
Storage	1300	1925

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Contributing Buildings Continued

Common Name	LACO #	Const. Date
Building 209, Storage 209	1197	1926
Building 210, Nursing Education	1198	1926
Building 211, Histopathology Lab	1199	1926
Building 212, Neuro. Research Lab	1200	1926
Building 214, Vocational Service	1201	1926
Building 60, Ward 60	1187	1926
Business Services	1100	1926
Garage	1179	1926
Restroom, Landscape Storage	1256	1926
Vivarium	1334	1926
Main Kitchen	1295	1927
Building 70, Ward 70 OFFICE BUILDING	1188	1928
Casa Consuelo	1238	1928
Auditorium	1261	1928
Garage, Storage	1280	1928
Vivarium Annex	1335	1929
Auto Shed	1379	1929
Garage, Shed	4118	1929
Auto Shed	4121	1929
Volunteer Service	1239	1930
Shelter	1240	1930
Shelter	1246	1930
Shed	1272	1930
Wheelchair Repair, Sign and Locker Room	1259	1931
Shed	1333	1931
Women's Gymnasium	1241	1932
Snack Bar #3	1245	1932
Bonita Hall, Prosthetic Shop	1264	1932
Garage	1268	1932
Storage Shed	1270	1932
Tool House	1356	1936
Landscape Office, Nursery Office	1357	1938
Shelter (near Morton Bay Fig)	1265	unk.
Smoke Stack	unk.	unk.

Non-Contributing Buildings

Common Name	LACO #	Const. Date
Crafts Center, Amigos Hall	1266	1928
Transportation Office	1267	1930
Pump House	1292	1932
Vocational Training	589	1941
Vocational Training	590	1941
Lumber Shed	954	1942

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Non-Contributing Buildings Continued

Common Name	LACO #	Const. Date
Shed	1464	1945
Shed, Men's Gymnasium	2434	1949
Shed	2435	1949
Shed	2436	1949
Shed	2437	1949
Post Office	2677	1949
Garbage Can Room	3348	1951
Shelter	1290	1952
Prosthetic Shop	3390	1953
Loading Dock	3820	1954
200,000 Gallon Water Tank	5547	1966
Steam Plant	5548	1966
unk.	2492	unk.
Water Tanks	1284	unk.
Shed	2492	unk.
Work Prep. Center #1	5750	unk.
Credit Union	unk.	unk.
Butler Building 24	unk.	unk.

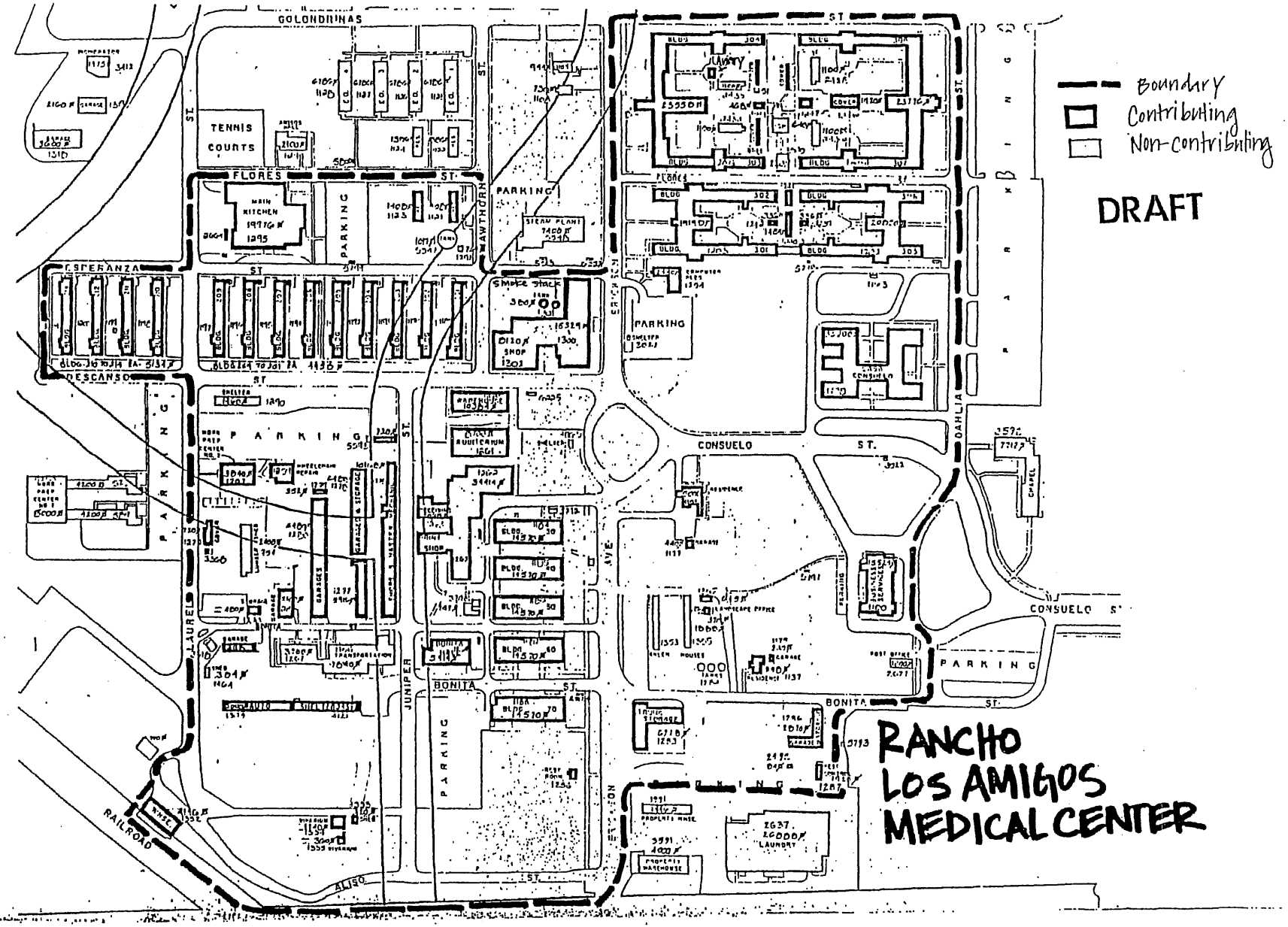
Not Surveyed

Common Name	LACO #	Const. Date
Greenhouse	1353	unk.
unk.	1242	unk.

Demolished

Common Name	LACO #	Const. Date
✓ Greenhouse	1355	1926

76
24
2
1
103


Boundary
Contributing
Non-contributing
DRAFT
RANCHO
LOS AMIGOS
MEDICAL CENTER
GOLONDRINAS
FLORES ST.
ESPERANZA ST.
DESCANSO ST.
BONITA ST.
ALISO
RAILROAD
LAUREL ST.
JUNIPER AVE.
HAWTHORN ST.
DAHLIA ST.
CONSUELO ST.
TENNIS COURTS
PARKING
MAIN KITCHEN
STEAM PLANT
Smoke Stack
LAUNDRY
CHAPEL

F. HISTORICAL RESOURCES

The following information was derived from the Los Angeles County's Development Strategy for the Rancho Los Amigos Medical Center property. This document identifies five potentially significant buildings on the project site: Casa Consuelo, the Learning Center, the Harriman Building, and two residential structures. The following section provides the history of the buildings and any significant characteristics warranting the preservation of the buildings.

1. EXISTING CONDITIONS

Existing Rancho Los Amigos Medical Buildings consist mostly of one- and two-story structures, ranging in age from 10 years to 80 years. Originally founded in 1888, Rancho Los Amigos was a living site for the County's poor and dependent. However, in the 1920s, the site's uses were expanded to include care for patients suffering from chronic diseases. This marked the introduction of Rancho Los Amigos as a health care facility as opposed to its former role as a home for the less fortunate.

During the 1950s, post-polio patients who could no longer be cared for at the Los Angeles County Medical Center, were transferred to Rancho Los Amigos for rehabilitation. In subsequent years, the Center continued to specialize in rehabilitative medicine and continues now to be in the forefront of research, training, and clinical applications for rehabilitation patients.

Although the evolution of the site represents a development of social interest in the history of Downey, the buildings have no federally registered historical significance. None of the buildings exhibit exceptional architectural significance for their periods. There are, however, several buildings which warrant discussion because of their aesthetic, historic or symbolic value (see Exhibit 9 for their location).

The Business Services/Nursing Education Center, constructed in 1926, is one of the older buildings on the site. Located in the southern portion of the project site, the Spanish-style building forms an interesting focal point for Consuelo Street which provides access to the site from Paramount Boulevard.

Casa Consuelo, located north of this building, is also Spanish-styled. Built in 1928, the building presently provides only a minimal standard of accommodation for transitional-living patients. Because of its age, it does not

in California, being compiled for Stanford University Press by Douglas E. Kyle. Our Society receives frequent requests for lists of sites in Downey noted for their historical or architectural merit and is in the process of developing a new pamphlet for distribution. Rancho Los Amigos is always included, for the reasons already mentioned.

We feel it is important to address the overall historical/architectural significance of Rancho Los Amigos, which a parcel by parcel study may not accomplish. For ease of communication, however, the following comments will be by parcel designation.

Parcel C may be ruled out as containing any existing historical importance.

Parcels B, D and H all contain structures and landscape features which are of historical value:

Parcel B

Contains many pre-1932 buildings which are noteworthy for their architectural style and for their original uses at the "County Farm." The Spanish Colonial Revival residences along Erickson Drive (late 1920s) are excellent examples of their style. Dwellings to the west of these were originally constructed in an isolated setting for night shift employees who needed quiet sleeping. The 2-story wooden frame buildings south of Golondrinas were used as nurses' residences. Other buildings housed patient wards and a shoe shop, organized about 1930 by a Downey resident (Caesar Mattei) to manufacture orthopedic shoes and to train disadvantaged farm residents in a productive skill. Handcrafts were produced here to support the farm (mattresses and brooms) as well as to sell (Navajo-type rugs, baskets, leather goods, etc.). Rancho was noted for these crafts and did a thriving business even outside the community. A former packing house, built before 1909, still stands at the railroad tracks near Laurel Avenue. Near this packing house is a uniquely shaped tree which exhibits the horticultural attentions of some past employee. Parcel B also contains many other mature trees which date from at least the early part of this century. Our society is currently trying to learn more about them.

Parcel H

While not currently up for evaluation, this parcel must be considered at the same time as Parcels B and D because they are contiguous and share all the

c. that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that posses high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction;

d. that have yielded, or may be likely to yield, information important in prehistory or history.

Although the proposal may result in the demolition of several buildings that have aesthetic value and add to the visual identity of the Rancho Los Amigos Hospital, there are no historically significant buildings on site (according to the National Register).

3. MITIGATION MEASURES

#19. No measures to mitigate historical impacts are required, as no significant historical impacts have been identified. However, the Business Services/ Nursing Education Building and the Harriman Building are interesting focal points of the hospital site and could be considered aesthetic resources. Because of their visual importance, these buildings should be considered for preservation. However, this recommendation recognizes the need for land currently occupied by the buildings and costs for remodeling or maintenance. If these are not significant variables, then the buildings should be retained.

No other mitigation measures are recommended for the remaining buildings, since no significant historical impact is anticipated to result from the removal of the structures.

4. UNAVOIDABLE ADVERSE IMPACTS

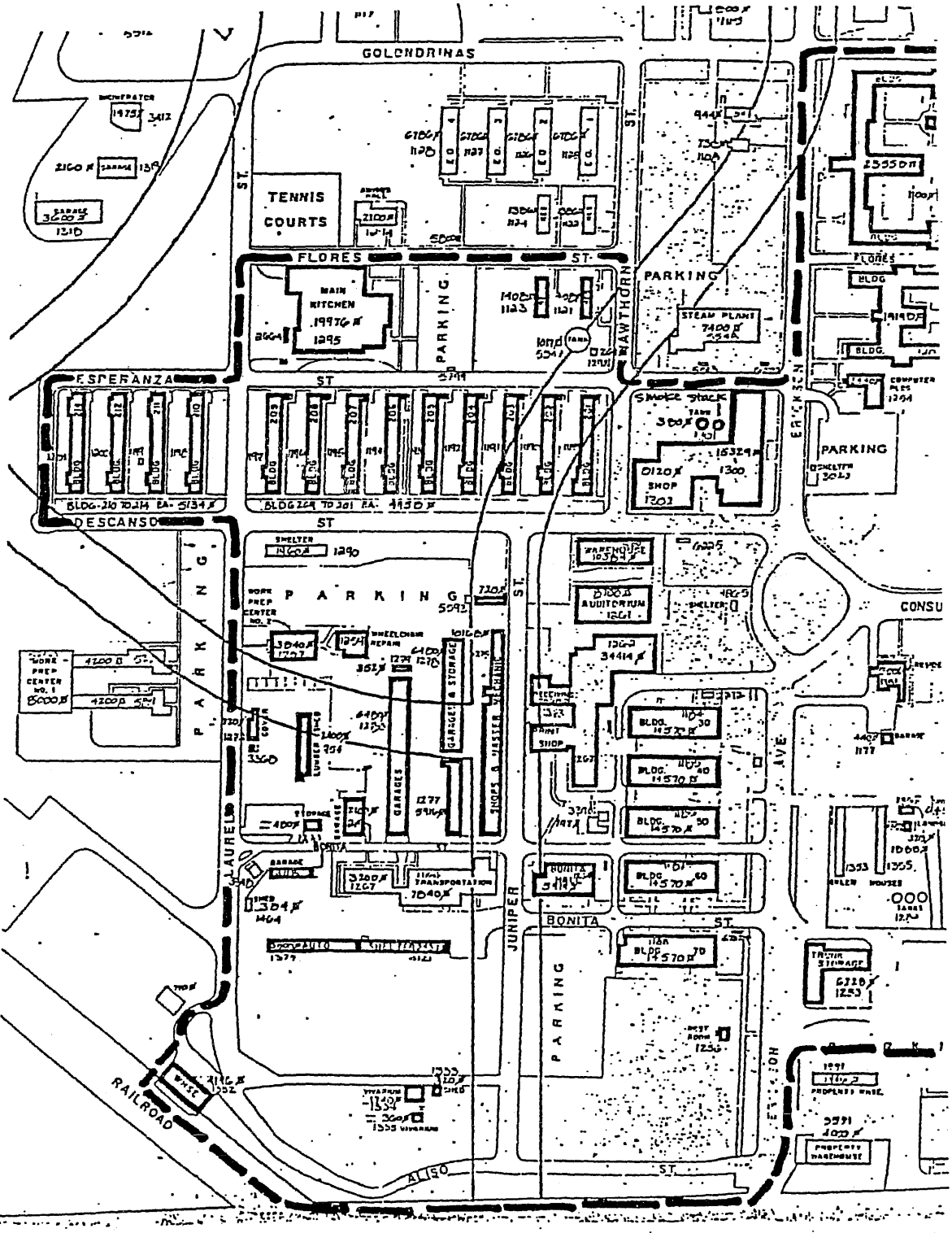
No unavoidable adverse impacts have been identified.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
MAP SHEET

Primary # _____
HRI#/Trinomial _____

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Resource Identifier: Rancho Los Amigos Medical Center
Map Name: _____ Scale: No Scale Date: 7/26/95

Note: Include bar scale and north arrow on map.



Appendix F

Previous Evaluation by Post/Hazeltine Associates, 2004

PART 1
Intensive Historic Structures/Sites Survey

for

The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

Prepared for

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March 19, 2004

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1.0 INTRODUCTION

Rancho Los Amigos, a county operated rehabilitative hospital, is located on an approximately 65-acre parcel in Los Angeles County, California Figures 1 - 2a). This Historic Structures/Sites Report includes an intensive survey of the South Campus of Rancho Los Amigos. The survey follows the guidelines set forth by the County of Los Angeles for Historic Structures/Sites Reports.

2.0 ADMISTRATIVE SETTING

In 2002 the Los Angeles County Administrator's Office (CAO) contracted with *Post/Hazeltine Associates* to carry out a comprehensive survey of the South Campus of Rancho Los Amigos. Rancho Los Amigos is a public rehabilitative center that is part of the County of Los Angeles Public Hospital Division of the Department of Health Services. The purpose of the study was to evaluate the South Campus for the presence of historic resources and to determine if these resources were eligible for designation individually or as a part of a historic district. The results of the study will help guide the LACO's office as it plans the future use of the property. The assessment included the following components: 1) Preparation of an historical context and site history for the property; 2) Survey of existing conditions; 3) Documentation of existing conditions; 4) Assessment of integrity of individual buildings and the South Campus as a whole; 5) Evaluation of potential eligibility of property or its individual buildings for nomination to the National Register of Historic Resources and the California Register of Historical Resources; and 6) Addendum including State Parks Department DPR 523 forms.

3.0 HISTORICAL CONTEXT AND SITE HISTORY (History of Rancho Los Amigos)

3.1 History of the Property (1769-1887)

Rancho Los Amigos did not begin as a rehabilitative hospital. Rather, the rich and varied history of the hospital extends over a period of a hundred and seventeen years, beginning in 1887, when it was founded as a poor farm for the County of Los Angeles. In that year the County purchased 124.4 acres of farmland from Andrew Ryan (While the deed showed Ryan selling the county all 124.4 acres, in actuality he owned 91 acres. The remaining 33.4 acres belonged to a bank, the Farmers and Merchants Bank, and a conglomerate of individuals, including John Downey, James McFarland and two brothers, James and Mason Miller). Located in Los Nietos Valley, a few miles from the city of Downey, Ryan's property was first proposed as a suitable site for the County Poor Farm by Board of Supervisor member and a resident of Downey, Judge J. W. Venable (Fliedner 1990: 20-21). The land purchased from Ryan was once a part of a large Spanish land grant awarded to Manuel Nieto, a soldier serving in California in the later decades of the eighteenth and early decades of the nineteenth century. Following his death, in 1834, Nieto's land grant was divided among his six heirs, then over the succeeding years it was sold and parceled off into smaller farm and ranch lands, including Andrew Ryan's.

The County's purpose in building a new poor farm was to provide an expanded facility to replace the existing, but overcrowded County Hospital and Farm opened in 1878. Located less than a mile from downtown Los Angeles, it was not large enough to serve the County's growing indigent population, many of whom were former miners from the Gold Rush era, now old and penniless and often without family to support them. Other patients were drawn from those who had come to California seeking the curative powers of the state's benign climate (many of the people had tuberculosis and sought the dry air of southern California for what they believed to be its restorative powers). Having exhausted their funds and being too ill to return to their former homes, they, like the

miners, were stranded without support. Within a decade of opening the first County owned and operated hospital it was clear that the 106-bed facility was simply too small to serve Los Angeles's growing burden of caring for the poor and needy.

3.2 Initial Development of the County Poor Farm (1888 – 1901)

The property the County purchased from Andrew Ryan was undeveloped, having been used prior to its sale as grazing land for sheep and cattle. Now the acreage had to be prepared for its new role as the County's Poor Farm. First, local laborers were hired to clear the land and plant eucalyptus saplings along the newly graded roads, and boundaries of the property. Finding water was essential to the maintenance of the landscaping, as well as the anticipated needs of the prospective facility. In 1888, an artesian well was dug and a pumphouse and water tower built (The since demolished well, pumphouse and water tower were located on what is now the site for Building 30) (Fliedner, 1990: 74). The principle access, Main Drive, was lined on one side by palm trees and on the other by a row of eucalyptus trees (Now Erickson Avenue, Main Avenue subsequently was renamed Eucalyptus Avenue and then Horton Avenue. In 1976, Horton Avenue was renamed Erickson Avenue in honor of Eugene Erickson, chief administrator of Rancho Los Amigos between 1956 and 1976). The planting of trees, along with other foliage, was intended to instill a degree of lushness to the property. Landscaping of this type was particularly popular in California in the late nineteenth century and early twentieth century as a way of providing a haven from the harshness of the area's semi-arid environment.

With the planting and grading underway the Board of Supervisors began the process of soliciting bids to build the facility's first three buildings. On June 11, 1888, a bid was accepted from Jacob Friedlander to build the two-story 30-foot-by-60-foot Eastlake Style Refectory Building at the site of the present-day Auditorium Building. The first floor of the Refectory housed a kitchen, staff bathroom, storeroom, pantry and patient reading room. On the second floor were rooms for the employees. The attic was used as trunk room (The building was demolished in 1926) (Fliedner, 1990: 24). A short

time later construction began on two other buildings, North Ward (intended for the women patients) and South Ward (for the male patients) located to the east of the Refectory Building, (Both wards subsequently were demolished as a result of the damage they suffered in the 1933 Long Beach earthquake). Designed by the architectural firm of Kysor, Morgan and Walls, (later, under the partnership of Morgan, Walls and Clement, the firm would go on to become one of the most prestigious firms in Southern California,), the two-story brick buildings were completed shortly before the end of 1888. Sometime during the first year of construction a bird aviary was built, no doubt in the belief that the colorful plumage and lively sounds of the birds would help enliven the spirits of both the patients and staff. The oldest surviving structure at Rancho Los Amigos, the aviary is located adjacent to the north wing of Building 303 and 304 (LACO # 1205). The aviary, which originally had been located in the courtyard of the Office Building, was relocated when the building was demolished in 1929.

On November 22, 1888, the first group of indigent patients was transferred from the old County Hospital and Farm to the new facility in Downey (Fliedner, 1990: 27). In February 1889, following the appointment of several temporary superintendents, a physician Dr. E. L. Burdick, was hired by the Board of Supervisors to act as both superintendent and resident physician to the County Poor Farm. In the same year that Burdick was hired, a fourth structure, the Office Building, was built. Designed again by Kysor, Morgan and Walls, the three-story brick building was erected between the North and South Wards (Figure 3). Since demolished, it was located in front of the present-day Auditorium Building. By the last decade of the nineteenth century the County Poor Farm housed 126 patients and was fast becoming self-sufficient. Knowing the vagaries of County support Burdick initiated measures to insure the economic viability of the facility. Herds of Holstein and Jersey cows were purchased and by the turn-of-the-twentieth century the County Poor Farm's dairy herd was producing 200 hundred gallons of milk a day. During the 1890s a number of ancillary buildings were constructed, including a small bunkhouse and barn completed in 1893. A second, larger barn was built in the late 1890s, along with a freight and passenger depot (The barn was subsequently converted to a patient ward in 1931). Constructed by the Terminal Railroad Company, the depot was

added to the company's line after the County paid for its construction (Fliedner, 1990: 34-35). The two barns and the bunkhouse have been since demolished. The train depot was torn down in the early 1900s when a second depot was built to replace it.

In addition to the dairy herd, the County facility raised chickens, hogs, and sheep. Percheron horses were used as draft animals, until they were replaced by Belgian horses in the 1920s and shortly thereafter, by mechanized farm machinery. The County Poor Farm raised not only farm animals, but it also developed and propagated groves of orange and lemon trees. By 1898, the orange grove covered 32 acres. To maintain its sustainability, part of the County farm's acreage, in addition to the orchards, was devoted to row crops. The more ambulatory and healthier patients helped earn their upkeep by working the fields and orchards, receiving approximately $1.50 per day for their labor.

By the late 1890s the inmate population had grown considerably. The County facility now housed approximately 200 individuals, increasing the need to expand, as well as build, additional facilities. At this time the majority of the people living at the facility were drawn from the blue collar labor ranks, many of who had been hurt on the job. Lacking the kind of safety net available to others through the support of family and friends, or a reserve of money, the County Poor Farm offered these individuals a place to stay while they recovered from their injuries. In other cases, some of the farm inhabitants were elderly individuals who had no family to rely on for support. Included among the structures built during this period was a combined bathhouse and laundry building. Demolished in 1965, it was located just to the southwest of Building 30 (LACO #1184). In 1897, a new Woman's Ward was built at the northeast corner of Consuelo Street and Erickson Avenue. Also since demolished, the two-story building housed 20 beds on each level.

Photographs taken during the late nineteenth century show that the landscaping during this period continued to be an integral component of the facility. Extensive flowerbeds, hardscape features, fountains and newly planted trees increased the pleasant ambience of the facility. To Burdick and others attractive surroundings were important as

an aid in the recovery of the men and women who made up the farm's population. Though planned as farm facility the institution employed the type of urban planning popular with adherents of the late nineteenth/early twentieth century City Beautiful movement. City Beautiful paradigms like the Columbian World Exposition of 1893 helped popularize the classical imagery and planning that would be instituted in hundreds of towns and cities across America at the turn-of-the-twentieth-century. The Beaux Art plan initiated by the County Farm's architects can be seen in the symmetrically aligned buildings, radiating paths and garden parterres. Bisected by the curvilinear boundaries of the farm's public space, even the orange and lemon orchard maintains a balanced symmetry (Figure 4). As in the case of larger urban environments the buildings and landscaped features of the County Poor Farm's public space were combined in a "mutually supportive system" (Stern, 1986: 306).

3.3 Growth of the County Poor Farm: The Tenure of Thomas F. Simpson, George S. Clark, Andrew Fuller Wade and Charles C. Manning (1901 – 1915)

The dawn of a new century initiated far-reaching changes to the County Poor Farm. One of these included the appointment, in May, 1901, of Thomas F. Simpson as superintendent. Simpson's appointment came as a result of the retirement of Burdick in that same month. From this point on the dual position once held by Burdick, that of superintendent and resident physician would now be divided into two separate jobs. In addition to Simpson, Dr. Norton, who had been Burdick's medical assistant, was elevated to the position of the County Poor Farm's resident physician. Other changes were brought about by a change in the character of the inmate population. In the first twelve years of its existence the facility primarily treated the elderly poor and those who needed to recover from work-related injuries. However, as a result of the devastating economic depression of 1893, an increasing number of the facility's inmates were made up of the penniless. In addition, there was an growing influx of those suffering from alcoholism, drug addiction and mental illness (Thought at the time to be an inheritable condition, alcoholics were classified as "insane" and it was believed that they, unlike other mental

patients, could never be fully cured). Simpson's tenure as superintendent was short lived. In 1903, George S. Clarke took over Simpson's job, but as in the case of Simpson, Clarke too only served a few years, resigning in 1907. During this period Marshall E. Price assisted Clarke as the County Poor Farm's resident physician.

By the first decade of the twentieth century it was obvious that the County facility's physical plant was too small to meet the needs of its steadily increasing patient population. Between the end of Clarke's tenure, in 1907, and the appointment, on September 7, 1907, of a new superintendent, Andrew Fuller Wade, some inroads had been made in helping alleviate the County Poor Farm's overcrowded conditions. Construction on several new structures had begun, including a ward to house what was referred to at the time as the harmless insane. The Insane Ward, completed in 1907, was designed by the architectural firm of Hudson and Munsell as a single-story brick building (USC Rancho Los Amigos Archives, Box 34, File 8). Subsequently added to over the years, today it comprises the center portion of Building 303-304, located on the southeast corner of Erickson Avenue and Golondrinas Street (LACO #1205).

At the same time that work was proceeding on the construction of the Insane Ward, a small brick clad chapel (LACO # 1254) was built to serve the needs of the staff and patients. Completed in 1907, and located adjacent to the Insane Ward on Erickson Avenue, the chapel was subsequently moved in the 1920s to its present site, just south of the Insane Ward. In 1955, after a larger chapel was built, the original chapel ceased being used for religious services. Over the years the former chapel was employed for various purposes, including a library, as the Building Crafts Planning Division, later as a Computer Center and until recently, as the Office of Public Safety. Today, the heavily modified building, exhibits the type of alterations found on many of the Rancho Los Amigos buildings whose functions have changed overtime. Modifications to the former chapel include, among others, the covering of its original brick façade with asbestos clapboard siding and the removal of its original windows, steeple and rose window.

Three other structures were completed in 1907, including a depot, with its adjunct supply warehouse, and a dairyman's house. Located adjacent to the rail tracks, at the far southwest end of the property near Gardendale Street, the depot (LACO #1352) and warehouse (LACO # 1352) were vandalized and burned to the ground in 2001. The dairyman's house (LACO # 1137) is located on the north side of Bonita Street. Occupied as residence until 1970, then used until 1988, and possibly longer, as storage for the Landscaping Department, today, the modest Craftsman bungalow is vacant and badly deteriorated.

Over the years the County facility continued to expand its infrastructure, acreage, staff and patient population. By 1908 the farm had grown to 333 acres. The number of resident patients continued to increase and by 1910 the institutionalized patients had reached an average of between 210 and 220 per month. The staff now comprised 20 full-time employees. During Superintendent Wade's tenure several more structures were built, including the Power House (LACO #1300). Constructed in 1909, the single-story brick building was built north of Building 201 (LACO #1189), at the corner of Hawthorn and Descanso Streets. As recently as 1988 the Building Crafts Department used it for its Sheet Metal and Plumbing Shops. A second structure, a two-story clapboard sided vernacular styled building (LACO # 1287) also was completed in 1909. Judging from its second-story hayloft, the building most likely was used as a barn in conjunction with the County's farm operation. Located at the far southeast end of the property, between Gardendale and Bonita Streets, the now vacant building's last function was as a Pest Control facility. Despite its building program, by the end of Wade's tenure, the County possessed a facility that even in its expanded state could not house its burgeoning indigent population. In the coming years the County Poor Farm would face the challenge of updating its infrastructure in order to support and care for the needs of its increasing inmate population.

In 1911, Charles C. Manning was appointed the new superintendent of the County Poor Farm, replacing Andrew Wade. During Manning's tenure, between 1911 and 1915, the Poor Farm's population increased a dramatic 280 percent, from 198 to 479 inmates

(Fliedner, 1990:74). Manning, whose father, C. D. Manning, was a County Supervisor, worked to ensure that the County Poor Farm received the funding necessary to increase the number of beds and support facilities required for the expanding institution. During Manning's tenure a one-story brick addition was added to the Power House, in 1911 (LACO # 1302). Now vacant, it was last used as a mechanical shop and equipment warehouse. By 1912, plans were underway to construct two more patient wards, Buildings 30 and 40 (respectively LACO # 1183 and LACO # 1185), located on the west side of Erickson Avenue. Prior to construction the original 1888 pumphouse building and water tower were demolished to make way for the new buildings (Fliedner, 1990: 74). Both of the two-story stucco-clad wards were completed in 1913. A two-story dining, staff residency and commissary wing, located behind and to the south of the two wards (LACO # 1262 and LACO # 1263) was also built in 1913. Designed by the architect, George Low, the new brick wing housed the General Dining Room. The dining room, which served meals on the first floor for both working, as well as infirm, non-working patients, also contained a commissary on the first floor and staff housing on the second (USC, Rancho Los Amigos Archives, Box 31, File 11). The building, located to the west of Buildings 30 and 40, was built as an extension to the south end of the existing kitchen and dining room building. Later, a pedestrian bridge was added connecting Building 30 to the dining room. The bridge was subsequently demolished, and in the 1930s, replaced by the existing bridge. Until recently the former dining/staff/commissary wing served as a print shop, record storage and receiving facility.

In the last two years of Manning's tenure the staff had grown to 46, almost all of them living at the County Poor Farm. During this period several more structures and features were built, including a stable (LACO # 1283) designed by the architect George Low, in 1913 (USC, Rancho Los Amigos Archives, Box 31, File 11). The two-story brick stable, located on the corner of Erickson Avenue and Bonita Street, replaced an earlier wood stable, built in the early 1890s (Fliedner: 77). Less than a decade after its construction its second floor was remodeled to serve as a ward for ambulatory male patients. Later, it was used as a trunk and storage room and most recently, as the Medical Equipment Repair Shop. A steel tank and water tower (LACO # 1301) also was built in

1913. The steel tank and water tower, located behind the Power Plant at Hawthorn and Esperanza Streets, is longer in use.

In 1914, a devastating flood hit the County Poor Farm. The flood, which caused over a $100,000 in damage, left two to four feet of flood debris and salt concentrated sand over the farm's once fertile fields and orchards. The alfalfa crops, as well as all but a few acres of fruit trees, were lost. The flood damaged some of the new buildings, the warehouse next to the depot, and even stacks of lumber intended for the new superintendent's house. It would take many years before the farmland was usable again. The following year, on February 1, 1915, Charles Manning resigned as superintendent, the same day the County instigated its own County Department of Charities (Fliedner: 1990, 80). The new department, divided into five divisions, included the County Hospital, County Farm, Outdoor Relief, the Olive View Sanatorium (to treat tuberculosis patients) and the County Cemetery. Each division was to be headed by a superintendent. With this in mind, a search was begun for a new superintendent for the County Farm.

3.4 The Tenure of William Ruddy Harriman (1915-1931; 1933-1952)

On June 1, 1915 William Ruddy Harriman was appointed the County Farm's new superintendent (Figure 5). This, despite the fact that the County's grand jury recommended that the superintendent of the County Farm be someone well versed in animal husbandry and farming. Interestingly, Harriman fit neither of those categories, in fact his degree was in chemical engineering from the University of Southern California. Nevertheless, the choice was a fortuitous one, as Harriman proved to be a capable and skilled administrator. In the years Harriman was superintendent of the County Farm he would see its mission changing from a poor farm, whose purpose was primarily to take care of the indigent and poor, to a hospital facility serving the needs of its ailing patients.

It was clear that when Harriman took the position at the County Farm that one of his first concerns was to see the facility recover from the flood damage of the year before. In the first few years Harriman and his staff devoted themselves to reclaiming the alkali-

soaked land and rebuilding the animal stock. Eventually, the soil reclamation program proved successful and the farmland was made usable again. The number of livestock, including poultry, sheep and pigs increased dramatically. Harriman purchased Percheron brood mares to replace the aging stock of workhorses. Within a short time the farm was once again raising record amounts of alfalfa, corn, beets and other row crops.

Harriman saw the need of increasing the facility's infrastructure, as well. Between 1915 and 1917 a number of buildings were constructed, including a new supervisor's residence, completed in 1915. Though initially commissioned by Charles Manning, Harriman, who was appointed superintendent in June, 1915, was most likely the first to live in the house (To this day it is referred to as the Harriman House). Built in the Craftsman tradition, the large, two-story clapboard sheathed house (LACO # 1101) is located near the corner of Erickson Avenue and Consuelo Street. Now vacant, the house was used last as the Older Adult Center. Other physical improvements to the County Farm included the construction of a wood frame hay barn, completed in 1915 (Located next to the stable, it burned to the ground in 1921) (Fliedner, 1990: 101).

In 1916, a third patient ward, Building 50, was built (LACO # 1186). The two-story stuccoed brick building was designed to accommodate male ambulatory patients. In the same year two wings and three freestanding accessory buildings were added to the existing Psychopathic Ward (LACO # 1205). Built to the rear of the Psychopathic Ward, they were completed in 1916 and included two open shelters (LACO # 1243 and LACO # 1251) and a toilet room (LACO # 1244). Much of this new construction was in response to the facility's growing population; which by the end of 1916 had grown to more than 600 patients (Three years later there were 990 inmates) (Fliedner, 1990: 89; 99). Even after the completion of the third ward, in 1916, there still was not enough room to house all of the County Farm's inmates. As a temporary measure the second story of the brick stable (LACO #1283) was converted into a ward to house 70 male patients. Seen initially as a temporary stopgap measure, the converted stable would be in continuous use for the next 17 years until damage caused by the 1933 Long Beach earthquake required the stable's second story to be removed (Figure 6).

As the County Farm approached the second decade of the twentieth century mechanized equipment began to replace the horse-drawn carriages, wagons and plows that had been used for farming and transportation. In 1917, a wood frame automobile garage was built to the rear of the Harriman House (LACO # 1177). Other improvements were made to the superintendent's house during this period, including the construction of a small wood frame shed (LACO # 1178), located adjacent to the superintendent's house. The shed, built between 1915 and 1922, appears to have been used to store garden equipment to maintain the house's garden.

By the late teens a number of significant improvements had been made to the farm's support facilities, including the construction, in 1917, of a 100-foot long, single-story brick building located across Juniper Street from the General Dining Room (LACO#1275). Built to house the maintenance and staff workshops and the office of the master mechanic this building enabled the farm to centralize its support staff at a single location. The institution's mechanized farm equipment, as well as its fleet of transportation vehicles, was housed in buildings, such as Building LACO #1286 built in 1920. A 1917 plot plan of the County Poor Farm (excluding the farm-related buildings and features) illustrates those buildings constructed between 1888 and 1917 (Figure 7). Two years later, in 1919, a residence for female psychopathic patients was constructed at the intersection of Flores Street and Erickson Avenue (LACO #1205). Designed by the County Building Department, the one-story, H-shaped brick building was comprised of isolation wards, a dining room for the patients and sleeping rooms for on-duty nurses. At the time it was built there were some 160 mentally ill people living at the County Farm, a third of them housed in the general wards because of the lack of room in the existing Psychopathic Building. This proved to be an untenable situation, as many of these patients, living in the loosely supervised environment of the general wards, were a danger not only to themselves, but to others, as well. The construction of the new ward was symptomatic of the philosophical shift in Rancho Los Amigos' mission. Initially, begun as a provider of short term care of indigents and the very old, the County Farm was now inexorably moving in the direction of assisting in the long term care of the physically and mentally ill.

In just a few years under Harriman's direction the County Farm had become not only self-sustaining, but profitable, as well. In a report to the County Harriman reported that between June 1915 and July, 1918, the County Farm had saved taxpayers approximately a half-million dollars (Fliedner, 1990: 96). The increasing professionalism instilled by Harriman and others, is illustrated by the appointment, in 1920, of Frank Moore as the head of the Dairy Department, where he oversaw the supervision of 19 civilian employees and a large number inmate laborers (Fliedner, 1990: 100). By the early 1920s the dairy herd numbered some 300 purebred Holstein cows. Several years later, in 1926, the Board of Supervisors authorized the purchase of the 68-acre Monteleone Ranch to allow further expansion of the dairy herd and other livestock. The newly purchased land was located north of Imperial Highway and west of Old River School Road (Fliedner, 1990: 114).

An aerial photograph taken in 1922 shows just how extensive and significant farming and the raising of livestock had become to the economic viability of the County Farm. Fruit orchards had been reduced considerably following the 1914 flood. Increasingly, more and more acreage was planted in alfalfa and row crops (By 1921 there were only six acres of orange trees, from a high seven years earlier of between 40 and 50 acres). In addition, dairy and other livestock production had risen in importance indicated by the completion during this period of several large dairy barns, hog and sheep pens and chicken houses. Ancillary farm structures included a number of barns, stables and grain silos. One of these accessory farm buildings was an L-shaped single-story structure clad in vertical board, located off of Bonita Street (LACO #1286). Built in 1920, its original use, other than it was used in conjunction with farm operations, is unknown. Currently it is being used as a garage and storage shed.

As superintendent of the County Farm Harriman continued to initiate programs to make Rancho Los Amigos self-sustaining. For the most part, profitability revolved around the raising of row crops, dairy herds, hogs, and chickens. In the early years there were enough healthy ambulatory inmates to fulfill labor tasks. Now this was becoming more difficult. By the early 1920s it was becoming increasingly obvious that the County

Farm was transitioning from a facility to aid the destitute and those temporarily incapacitated, to an infirmary for the chronically ill. The transformation of Rancho Los Amigos from a County farm to a hospital had the full support of Harriman, who had lobbied the County for the change. Due largely to Harriman's tireless efforts there were sufficient facilities to meet the needs of its new mission. Harriman pointed out to the Board of Supervisors that the County could save money if the ill were treated at the County Farm, where it cost $1.58 per day to treat a patient, versus $3.75 a day at the County Hospital in Los Angeles (Fliedner 1990: 119-120). The County agreed and soon increasing numbers of invalid patients were being transferred to the County Farm. In 1923, 130 bedridden patients were transferred from the Los Angeles County Hospital to newly built infirmaries at the County Farm. The admission of these patients "signaled the end of the farm era and the beginning of the hospital era ... The Farming and Dairy Departments and General Wards with their indigent, able-bodied men and women would gradually make way for hospital wards" (Fliedner, 1990:105).

As an indication of this change, between 1922 and 1924, a number of wards were constructed to accommodate the influx of seriously and chronically ill patients (Figure 8). These included a two-story patient building and eight, one-story, wood frame "temporary" infirmary buildings. Building 60 (LACO #1187) was the fourth two-story patient ward constructed on Erickson Avenue. Built in circa 1922, it was designed to recapitulate the scale and massing of the three existing two-story stuccoed brick wards, constructed between 1913 and 1916. In addition, eight infirmary buildings, built between 1922 and 1924, were added to accommodate the growing patient load (Figure 9). These included Building 201 (LACO #1189), Building 202 (LACO #1190), Building 203 (LACO #1191), Building 204 (LACO #1192), Building 205 (LACO #1193), Building 206 (LACO #1194), Building 207 (LACO #1195) and Building 208 (LACO #1196). Bounded by Descanso, Esperanza, Hawthorne and Laurel Streets the eight wards filled the block. All built using the same plan, they were capped by modified, hipped roofs, and linked by a porch running the length of the west elevation. Each unit accommodated 30 patients, bedrooms for attending staff, bathrooms, a diet kitchen, and a sun porch for the patients.

In 1922, the men's bathhouse was built to accommodate the bathing needs of patients living in the wards. Located on the south side of Descanso Street, adjacent to the Auditorium Building, Building 20 (LACO #1260), was designed by Montrose Warn (USC, Rancho Los Amigos Archive, Box 31, File 9). Less than a year after their completion, the eight wards were filled to capacity. Two years later, in 1926, the Board of Supervisors authorized the construction five additional "temporary" infirmary buildings including, Building 209 (LACO #1197), Building 210 (LACO #1198), Building 211 (LACO #1199), Building 212 (LACO #1200) and Building 214 (LACO #1201). The wards were allocated for the following purposes: Buildings 201 through 208 were occupied by invalid women, Building 209 by male diabetics, Building 210 by male urology patients and Buildings 211, 212 and 214 by male invalid patients (There was no Building 213)(Fliedner, 1990: 120). An indication of the facility's chronic shortage of hospital beds was the porch enclosure of Buildings 201 through 214. The incorporation of the sun porches as bed space was intended to be temporary, as were the wards themselves, but they continued to be used for bed space from the time the infirmary buildings were modified in 1936, until they were closed some years later.

In conjunction with the increase in the number of patients dozens of new employees, including a large number of nurses, were hired. In 1924 the staff numbered 242, serving a patient population of 1,142. By this time almost half of the inmates were classified as either insane (257) or chronically ill (260) (Fliedner, 1990: 110). Much needed employee housing was provided by the addition of four two-story nurse's dormitories and a series of single-story vernacular styled bungalows intended for married workers. Two of the four dormitories were built between circa 1922 -1924, the third, designed by Montrose Warn, in circa 1924-1925, the fourth, sometime between 1924 and 1930 (USC, Rancho Los Amigos Archives, Box 33, File 4). All of the dormitories, once located within the block bounded by Golondrinas and Flores Streets, have been since demolished.

Located near the intersection of Hawthorne and Flores Streets, the married employee housing was constructed over a three-year period, between 1921 and 1924.

Two of the original bungalows, (LACO #1121), constructed in 1921 and (LACO #1123), built in 1924, are still in place (By the time the new bungalows were built the County Farm already had at least seven bungalows for its employees. Designed by P. O. Wright, and located along Erickson Avenue, some were in place as early as 1918 – 1919 (USC, Rancho Los Amigos Archive, Box 33, File 3, "Architectural Drawings for Type D Employee Bungalows"). In 1926, two single-family residences were built to house the chief resident physician and the assistant superintendent. A short time later two more houses were built nearby as residences for other administrative personnel. Designed in a Spanish Colonial Revival style, the cottages were located at the corner of Erickson Avenue and Golondrinas Street (Fliedner, 1990:150). All of the Erickson Avenue bungalows, as well as the four cottages, were demolished sometime between 1974 and 1990.

Another capital improvement made in the early 1920s was the conversion of an existing one-story brick building on Juniper Avenue into a morgue (The building was constructed in 1913, its original use unknown). This morgue replaced an earlier facility that had been located since 1915 in the Power House. Opened in 1924, the new morgue (LACO #1276) was equipped with eight refrigerated drawers, a laboratory, and an autopsy examining room. Sometime in the late 1940s or early 1950s the morgue was moved to another location and the building converted to a lock shop. The construction of a state-of-the-art morgue facility was only one of numerous improvements in equipment and staff that were necessary to transform the County Farm into a full-fledged hospital facility. Other changes included the construction of a pharmacy, and the purchase of medical equipment, including a x-ray machine, cystoscope, spirometer, manometer, and sterilizers (Fliedner 1990: 126-127). By 1925 the County Farm, which now included a pharmacy, a x-ray facility, a dentist's office, and a fully equipped surgical room, could perform many of the medical treatments and procedures that required patients prior to this to be treated at the County Hospital in Los Angeles.

Throughout the 1920s the number of mentally ill patients at Rancho Los Amigos continued to increase. By the end of 1924 the County Farm had 257 patients termed

"harmlessly insane." In response, the Board of Supervisors approved the construction of expansive additions to both the men and women's psychopathic wards. When completed in 1925, the men's psychopathic ward, Building 307 and 308 (LACO #1204), held 156 male patients. The women's ward, Building 305 and 306 (LACO #1202), intended to hold 98 female patients, was completed in the summer of 1925 (Fliedner, 1990: 133). Designed to simulate the style and material of the existing brick wards, the additions transformed each ward from a u-shaped building into a four-sided structure surrounding a central courtyard. Over the years the wards underwent a series of alterations and additions. Within each courtyard small support buildings were added, such as shower facilities and a toilet room (LACO #1247). Built in 1925, the toilet room is located in the courtyard of the women's psychopathic ward. Other modifications included an addition, designed by Montrose Warn in 1924, to the dining room of the older men's psychopathic ward, built in 1907 (LACO #1205). In 1928, hydrotherapy baths were installed, one in the men's ward and one in the women's. Another patient ward, Ward 104 (LACO #1207), was built in 1925 (Ward 104 last was used as Work Center Number 2 for vocational training).

Sometime in the mid-to-late teens the County Farm instigated a program of occupational therapy for its patients. From its inception it had been a matter of policy that all of the County Farm's inmates contribute to their upkeep, based upon their physical and mental ability to carry out tasks. The belief was that it would give the patient a greater sense of dignity and self-respect, and allow them to be less dependent on the charitable largesse of the County Farm. Initially, the more ambulatory patients helped in the field, harvesting crops, picking fruit and/or taking care of the facility's farm animals. But, as Rancho Los Amigos moved away from its role of serving the temporarily incapacitated and the penniless elderly, to increasingly providing accommodations for the chronically sick and the mentally ill, it was becoming more difficult to find enough able-bodied patients to fulfill the type of physical labor required of a farm-based facility. By the mid-1920s occupational therapy turned increasingly to vocational training, partially as a result of the increased emphasis by the medical profession on rehabilitating patients. This form of therapy was seen as an

integral component in the recovery of the patient's physical and mental health and as a means of re-integrating the patient into society.

William Harriman saw the implementation of occupational therapy as beneficial in helping "patients to again become self-supporting in whole or part and [the County] could no doubt eventually support the extra cost undertaken by producing articles used here and elsewhere in the county service." Harriman would go on to note that, "Such facilities would certainly improve both the physical and mental health and add to the patients' contentment" (Annual Report of the County Farm, 1917-1918). Furthermore, some of the craft training proved practical to the needs of the County Farm, such as furniture produced for the facility made in its woodworking shops. In addition to woodworking, patients were trained in other crafts, such as rug weaving, needle work, printmaking, basket weaving, leatherwork and ceramics. Just as in the case of appointing a professional to head the dairy operations, Harriman realized that Rancho Los Amigos needed an experienced supervisor to lead the vocational program. In 1926, after several years of lobbying Harriman convinced the Board of Supervisors to approve the hiring of Jack Holland to head the Occupational Therapy Department (Fliedner, 1990: 138). Two years later, in 1928, the Occupational Therapy Building (LACO #1266) was built to house the basket weaving and carpentry shops (Figure 10). Later, called Descanso Hall it is located at the corner of Juniper and Bonita Streets. More recently used as the Crafts Center, today it no longer is used for either occupational therapy or craft making. Occasionally, the building is used as a meeting hall.

Construction moved at a rapid pace at the County Farm in the 1920s, particularly between the years 1924 and 1930. During this period, in addition to residential units for the patients and staff, a number of ancillary structures were built to support the growing infrastructure of Rancho Los Amigos. Among these was a garage and storage building (LACO #1278), built in 1924 fronting on Juniper Street, a carpenter's office (LACO #1277), located adjacent to the garage and storage building, a small detached office (LACO #1279), located to the rear of the garage and storage building and a wood framed free-standing shelter (LACO #1290), constructed near the corner of Descanso and Laurel

Streets in circa 1920-1930 (It may have been rebuilt in 1952). In 1925, a larger power plant was built adjacent to the existing Power House, constructed in 1909 (LACO #1300). A free-standing smoke stack was constructed as a component to the new building. The new power plant generated so much energy that its one thousand horsepower engine provided enough energy to supply heat, light, power and water to all of the buildings at Rancho Los Amigos well into the 1950s. Following the construction of the larger power plant, the old Power House was used to house the facility's plumbing, sheet-metal, steamfitting, and electrical shops. Other, smaller additions to Rancho Los Amigos in the mid-1920s, included the construction of a garage in 1926 (LACO #1177), for the dairyman's house (LACO #1137) and a restroom (LACO #1256). Built in 1926, it is located at mid-block, along Erickson Avenue, south of Building 70. Other structures were constructed in conjunction with the farm's poultry enterprises. A feed barn (LACO #1334) built in 1926 and brooder house (LACO #1335) built in 1929, were located along an access road, between Laurel and Juniper Streets. One of the buildings, subsequently referred to as the vivarium (feed barn), has been since demolished (An aerial map shows the County Farm as it looked on May 24, 1926) (Figure 11).

By the time the patient and staff housing had been completed in the mid-1920s the County Farm began to address the need for improving other aspects of its infrastructure, including the construction of a new administration building, a new service building (which included two kitchens and an employee dining facility), another men's ward (Building 70), a new women's ward (Casa Consuelo), an auditorium and new streets to connect both old and new buildings. (Sometime between 1925 and 1928 the street names were changed, those running in an east and west direction were given Spanish names, the roads and streets running in a north and south direction were named after trees and plants).

For 37 years the original administrative building, a three-story structure built in 1889, had served as the County Farm's administrative headquarters. As early as 1920 it had become patently clear that the Office Building had not only seriously deteriorated, but, that its small nine office-space was completely inadequate for the purposes of

courtyard, are motifs associated with the style, though the building is a reductive interpretation of it. Several more service buildings were built in the waning years of the 1920s, including a second garage and storage building (LACO #1280). Built in 1928, the vernacularly styled structure is located to the rear of a garage (LACO #1278), completed four years earlier. Three more auto and garage sheds were built in the same general location as the two above-mentioned garage/storage buildings, including two auto sheds (LACO #1379 and LACO #4121), built in 1929, and a garage and shed (LACO #4118), also built in 1929.

3.5 The Depression Era and War Years at Rancho Los Amigos (1931-1945)

Under the direction of William Harriman the decade-long period of the 1920s saw tremendous growth at Rancho Los Amigos, both in its infrastructure and in patient and staff population. During this period some forty buildings and structures were built. The number of patients had nearly doubled, as had the staff. As importantly, by the end of the decade the County Farm had entered a transitional phase in its mission, from one in which its initial focus was on the care of the elderly poor and those suffering from work-related injuries, to the nurturing of the chronically physically and mentally ill. Now as Rancho Los Amigos moved forward into the next decade it would encounter the greatest challenge since its opening as a County Poor Farm in 1888. The Depression years of the 1930s and war years that followed would prove to be some of the most challenging years of the County Farm, not only financially, but, as importantly, in its purpose, who it would serve, and how it would survive to provide for those in need.

Little new construction took place between 1930 and the end of World War II, in 1945. With the exception of the Hospital Building (later renamed the Harriman Building), completed in 1931 and Bonita Hall, built in 1932, there were no large-scale projects within the fifteen-year period. The devastating economic stock market crash of 1929 signaled the onset of the most protracted economic collapse in America's history. Los Angeles County, in particular, was hard hit by the Depression. At its height as many as 25% of the American workforce was unemployed. The war years proved equally

difficult regarding the new construction at the County Farm facilities when nearly all non-defense-related construction came to a halt.

Those seeking admission to the County Farm increased dramatically during the Depression, regardless of the category, whether they were patients needing minimal care, the mentally ill or the chronically sick. Prior to this the majority of the County Farm's inmate population was drawn primarily from the ranks of blue-collar workers. Now as the 1930s progressed, the demographics of the patient population began to reflect a dramatic increase in white-collar workers. "A definite trend had begun in 1930, when it was noted that a large percentage of those admitted to the Farm were certified public accountants, attorneys, physicians, ministers, teachers, university professors, musicians and other professionals" (Fliedner, 1990: 169-170). Other problems that added to the increased inmate population in the early 1930s, included epidemics in polio, an unnamed neuromuscular disorder and paralysis caused by the consumption of bootlegged liquor (Fliedner, 1990: 157-158).

In 1932, with a staff of 700, there were nearly 3,000 patients residing at the 540-acre institution. By the late 1930s patient demographics began to change. Many of the Rancho's elderly patients were now leaving, their self-sufficiency made possible by the enactment of the Social Security program. In their place patients were now being drawn from the ranks of the working poor, many of them migrant farmers who had come to California from the Dust Bowl regions of the Midwest and South. By the end of the 1930s "these people made up 74 percent of all persons entering California. Most were poor. Many were malnourished. Thousands needed medical care and eventually came to the Rancho" (Fliedner, 1990: 189). During this same period dramatic changes were being instituted at the County Farm. The farming division was being phased out, as it was becoming less economically viable as a means to pay for patient care. Increasingly, professionals at the County Farm, as well as a number of officials at the County of Los Angeles, were realizing that Rancho Los Amigos "would inevitably become a hospital facility for the county's poor" (Fliedner, 1990: 192).

Throughout the 1930s William Harriman continued to tirelessly pursue the completion of the master plan he had developed for the County Farm in 1924. During a brief two-year period, between July 1931 and August 1933, Harriman resigned as superintendent to become head of the Department of Charities. Nevertheless, he continued to remain titular head of the institution. While, the assistant to Harriman, Everett Gray, served in the interim as superintendent of the County Farm, Harriman and his family continued to live in the superintendent's house, as well as attend most of the staff and other County Farm meetings. In addition, he maintained his office in the Administration Building (Fliedner, 1990: 172-173).

One of the major achievements of Harriman's master plan instituted in the early 1930s was the construction of the Hospital Building. Begun in late 1930, it officially opened on March 27, 1931 (Fliedner, 1990: 160). The 2,500-bed hospital, designed in a conflation of Mission Revival and Spanish Colonial Revival Styles, was built in stages, with the main building completed during the first phase of construction. It would be approximately another decade before the second phase, the arcaded wing, located to the east of the main building, would be completed. What perhaps few perceived at the time was the significance of the Hospital Building's site, located just to the north of Imperial Highway. The first major construction of a building north of Imperial Highway eventually created a bisected institution, with Rancho Los Amigos having both a South and North Campus. In the succeeding years building would increasingly be concentrated at the North Campus. As the years progressed the South Campus, with its older buildings and decreasingly important farm component, would become less critical to the County's needs when compared to the medically and technological more modern North Campus.

A number of small buildings and structures were constructed between 1930 and 1932. Two buildings were added to the Women's Psychopathic Ward, include an accessory building (LACO #1239), built in 1930 and a shelter (LACO #1240) also built in 1930. A freestanding shelter (LACO #1246), completed in 1930, was added to the Men's Psychopathic Ward. The Paint, Shoe and Print Shop (LACO #1267) (more recently the Transportation Office) and a shed to store flammable material (LACO

#1272) were both completed in 1930. In 1931 two structures were built, a laundry room (LACO #1259) (more recently the Wheelchair Repair, Sign and Locker Room) and another shed (LACO #1333). In addition, a dairy barn built in the 1890s, located near Erickson Avenue and Gardendale, was converted in 1931 as a ward for male patients. Remodeled as a patient ward because of overcrowded conditions, it continued in use until it was demolished in 1951(Following the end of the war it was used for a brief time to house 50 elderly Japanese-American men returning from the internment camp at Manzinar. After the Japanese left the Barn Ward, as it was called, general ward patients occupied the building until it was razed in 1951). Six structures were completed in 1932. They include the pump house (LACO #1292), a woman's gymnasium, added to the Women's Psychopathic Ward (LACO #1292), an accessory building, later used as a snack bar (LACO #1245), a garage (LACO #1268) a garage/storage building (LACO #1270) and Bonita Hall.

Bonita Hall (LACO #1264), located on Bonita Avenue, was designed by the architect, Edward C. N. Brett. Only the second large building built during the 1930s it was designed in a schematized interpretation of the Spanish Colonial Revival (Figure 16). The hall was constructed to provide a larger space for patient social activities, replacing the recreational room located in the Social Dining Hall. Fortunately, funds for the building had already been allocated before the stock market crash of October, 1929. (The Social Dining Hall now was used only for the purpose of patient dining). At the east end of Bonita Hall space was allocated for tables and chairs where patients could read or play games. Later, patients formed their own impromptu orchestra. Calling themselves the "Liver and Onion Band," they played music to entertain fellow patients and staff. A cooperative canteen was built adjacent to Bonita Hall to provide patients and employees with snacks, drinks, magazines, cigarettes and cigars. Remolded in 1974, more recently Bonita Hall has been used as the Rehabilitation Engineering Center.

Several more structures were constructed by the end of the 1930s. Small, like most of the construction that took place during the Depression, they were built in the location of three or four lath houses built in 1926 (Only one of the lath houses (LACO

#1353), located near the corner of Bonita Street and Erickson Avenue, is still intact today). These buildings and structures include a tool house (LACO #1356), a landscape/nursery office (LACO #1357) and three circular metal tanks (LACO #1284, LACO #1373, and LACO #1374). The tool house, completed circa 1936, was used to store garden equipment for the nearby lath houses. Two years later, in 1938, a landscape/nursery office was built adjacent to the tool house. It is most likely that three metal tanks, located just east of the dairyman's house (LACO #1137) near Bonita Street, were built sometime in the mid-to-late 1930s. One other small structure, a toilet building (LACO #2492), located near Bonita Street, between Building #1286 and #1287, was built circa 1930 - 1945. Federal participation in the expansion of the County Farm was minimal and involved only several beautification projects undertaken by the Federal government's Works Progress Administration (WPA), including the landscaping of both sides of Consuelo Avenue in the late 1930s. It is likely that the pine trees that line the street were planted as part of the WPA's contribution.

Between 1941 and 1945, less than a half dozen structures were built. Not only was it difficult to obtain supplies to construct new buildings during this period, but the staff to build them. During the war years the County Farm lost a number of employees, some to the armed services, others to the defense industry. More ambulatory patients left as well, many of them to work in the nearby aircraft plants. As a result a number of the positions at Rancho Los Amigos, even highly skilled ones, went unfulfilled. Four buildings constructed during this period include two vocational training buildings (LACO #589 and LACO #590). Built in 1941 the two inter-connected buildings, since demolished, were located along the west side of Laurel Street. In addition, a lumber shed (LACO #954), located on the east side of Laurel Street was built in 1942 and a small shed (LACO #1464), also located on the east side of Laurel Street, was completed in 1945.

3.6 The Post-War Years and the Establishment of Rancho Los Amigos as a Rehabilitation Institute (1946-1965)

In 1944, with the end of the war successfully in sight Rancho Los Amigos officials, led by William Harriman, solicited the Board of Supervisors for $2,000,000 to pay for the institution's much needed improvements, almost all of it involving plans to develop its North Campus (William Harriman retired as Superintendent of Rancho Los Amigos in January, 1952. He died of a heart attack the following year on December 28, 1953 at the age of 64). Among the new buildings projected for the coming years were new infirmaries, a children's convalescent home, and a physiotherapy and hydrotherapy building. While great progress in developing the North Campus was either under construction or in the planning stages, the South Campus had little in the way of large building projects. Beginning in the postwar period the primary focus of Rancho Los Amigos' medical and hospital care would be concentrated on the North Campus and not the South. In 1949 there were 2,405 patients residing at the institution, including 775 individuals housed in the general ward, 1,088 in the infirmary wards (76 of which were patients in the post-poliomyelitis wards), and 317 male inmates and 225 female inmates in the mental hygiene wards (Fliedner, 1990: 234).

As Rancho Los Amigos entered the decade of the 1950s construction on the North Campus continued at an increased pace. Among the first of the large-scale postwar projects was the construction of a series of six infirmary wards located adjacent to the Medical Building. In 1950 the first three infirmary buildings were finished, followed a year later by the completion of three more. At the same time that the North Campus was under development, the South Campus was beginning the initial stages of dismantling its patient residential wards and support facilities. In 1951, both the Barn Ward (Ward 103) and Tent City were dismantled (Comprised of 30 tents intended to temporarily house patients evacuated from wards damaged in the 1933 earthquake, the tents had been in continuous use for 18 years). Beginning in the late 1940s a coordinated treatment program based on the physical manipulation the body rather an emphasis on craft training was changing the way disabled patients were being treated. As a consequence,

occupational therapy was now concentrated in the physical therapy facilities on North Campus, rather than the craft shops located on South Campus.

The lessening of importance of the South Campus and the increasing significance of the North Campus is best illustrated by Rancho Los Amigos' construction program in the postwar years. Between 1946 and 1965, there were only three buildings of any size and significance built on the South Campus. These included a new laundry facility (1951), chapel (built 1955), and general ward (1963). Of the three buildings, only the general ward, was directly related to patient housing. Increasingly, patient care and services were being transferred to the newly built facilities on the North Campus.

In 1951 a new laundry facility was constructed in the area of the demolished dairy located east of Erickson Avenue and south of Bonita Street, replacing the original laundry on Descanso Street. By the postwar period the old facility had become outdated, its equipment in need of repair and the physical plant too small to serve the current needs of the institution. When the new Laundry Building (LACO #2637) was completed in 1951 it comprised 24,034 square feet and included vast areas for flat ironing, as well as sections for washers and dryers. The building was so large that it handled not only its own needs, but provided laundry service for several area hospitals, as well. The facility continued in operation until 1983 when it was closed after Rancho Los Amigos contracted out their laundry to a private company. Responding to the expanding, as well as divergent needs of Rancho's staff and patient population, a new chapel was built in 1955. Located on the corner of Dahlia and Consuelo Streets, the chapel (LACO #3592) was designed to serve Protestant, Jewish and Catholics faiths. Comprised of two distinct chapels, each had an approximately 70-seat capacity.

Despite the fact that Rancho Los Amigos was beginning to accelerate its rehabilitation programs in the late 1950s, it still served primarily as a chronic-disease general hospital. In 1960 there were 1,700 long-term chronically ill patients compared to 200 patients housed in the rehabilitation wards (Fliedner, 1990: 305). The general infirmary ward, (LACO #5028), built in 1963, signaled the last major construction of a

building on the South Campus (It should be noted, however, that its location is relatively close to the North Campus, on the corner of Erickson Avenue and Golondrinas). Upon its completion patients who had been housed in the 40-year old "200" infirmary wards were moved to the new facility. When the last of them had been transferred in 1964 the old infirmary wards were closed.

With exception of the general infirmary ward, laundry and chapel, the rest of South Campus' new construction during this period was comprised of less then a dozen ancillary structures, including four sheds, a decontamination room, a prosthetic shop, a and small vernacular building (the loading dock). One building, a post office (LACO #2677), was moved onto the grounds of Rancho Los Amigos in 1949. The war surplus building originally served as an army barracks but was remodeled as a post office when it was relocated to an area just south of the Administrative Building (Building #1100). The four vernacular style sheds (LACO #2434, #2435, #2436, and #2437), built in 1949, are located in the interior courtyard of the Men's and Women's Psychopathic Wards. Built in 1951, the decontamination room (LACO #3348), later used as a garbage can room, is located at the intersection Laurel and Bonita Streets. The prosthetic shop (LACO #3390), built in 1953, is located behind the rear elevation of Building 50 (LACO #1186), along Bonita Street. The prosthetic shop is one of the few examples of a schematic interpretation of postwar Modernist design on the South Campus. Built in 1954, LACO #3820, subsequently referred to as the Loading Dock, is located in the interior courtyard of the Men's Psychopathic Ward.

The postwar period was a critical time for Rancho Los Amigos, a time when its long-term emphasis on the care of the chronically and mentally ill was beginning include the treatment of epidemic diseases. Polio outbreaks were particularly endemic between the late 1940s and early 1950s. At this time Rancho Los Amigos was the only facility in Los Angeles County treating cases of polio requiring lung machines. In 1951 there were 85 people being treated for polio at Rancho Los Amigos. Of these 85, 63 were respirator cases (Fliedner, 1990: 239). Unfortunately, during this period there was little in the way of treatment for the severe polio cases. Understaffing, particularly in regard to physical

therapists and lack of money, made it difficult to develop efficacious programs to treat these types of patients.

In 1954 the Polio Respiratory Center was opened on the North Campus. Under Superintendent Robert Thomas, who took office as head administer in 1952, "Rancho Los Amigos was transformed from a farm to a hospital" (Fliedner, 1990: 246). Heading a staff of 1,500 employees, of which 50% were nurses, Rancho Los Amigos was grouped into departments and sub departments under two divisions, general medical care and post-polio medical care. Recognizing that Rancho Los Amigos had been functioning primarily as a hospital since the 1940s, and that shortly the farming and dairy divisions would be phased out, the Board of Supervisors, on October 5, 1955, changed the name of the facility to Rancho Los Amigos Hospital. As a part of the divesting of the farming and dairy programs the Rancho began to sell off its extensive acreage. By the mid-1950s the Rancho property had been reduced to 350 acres, approximately half of what it once represented in the earlier part of the century.

After the polio respiratory program was established on the North Campus, becoming the largest polio respiratory center in the world, Rancho Los Amigos began to expand its other services, including the opening of a "state of the art" Orthopedic Center (Fliedner, 1990:282). In some cases buildings on the South Campus, such as the old Wards 50 and 70, were converted for patients undergoing rehabilitative treatment in preparation for returning home. An interesting re-adaptive use of the South Campus' Auditorium occurred in 1953 when it was filled with polio patients in respirators in preparation for filming a theatrical trailer for a March of Dimes drive. The Respiratory Center had been open only a year when, in 1955, Dr. Jonas Salk discovered a polio vaccine. By the end of the 1950s the cases of polio had dropped dramatically, the Salk vaccine having brought to an end the outbreaks of periodic epidemics that had plagued generations of children and adults. Rancho Los Amigos now began the joyful task of warehousing their iron lung respirators. In the succeeding years the mass inoculation of the Salk vaccine eventually would completely eradicate polio as a disease.

Though it would be many years before the last of the polio patients would leave the hospital, the medical staff began to increasingly focus on their non-polio patients. Many of the rehabilitative techniques that had been used on their polio cases could be applied to those debilitated by long-term injuries and diseases. By the time administrative head Robert Thomas had left Rancho Los Amigos, to be succeeded in 1956 by Eugene Erickson, "the hospital was well into its evolutionary transition from a custodial unit to an active hospital engaged in rehabilitation, teaching and research" (Fliedner, 1990:285). While the activity and energy emanated by the medical staff was palpable on the North Campus, the South Campus was increasingly diminishing in significance. With its older, outdated facilities and the decreasing importance of its farm and dairy complexes, it was fast becoming extraneous and irrelevant. Beginning in 1957 Rancho Los Amigos began to phase out its mental wards and in the following year, the farm, dairy, and dormitory patients. In 1963 the last of the Rancho's farm and dairy operations was closed (Fliedner, 1990: 295; 300; 308).

3.7 The South Campus of Rancho Los Amigos in Transition (1965-2003)

In 1967 there were approximately 1,200 patients residing at Rancho Los Amigos, the vast majority housed in the North Campus wards and infirmaries. As the years progressed there was less and less new construction on the South Campus. Instead, changes to the area were primarily concentrated on the demolition of some of its older structures. In 1964, the Women's Ward, built in 1897, on the corner of Erickson Avenue and Consuelo Street, was demolished. A master plan proposed new buildings for the site to be used for hospital and administrative staff, though this never came to fruition. Instead, the now vacant site was employed as a parking lot. It was becoming obvious by this time that the South Campus was to be used as an ancillary component to the more modern facilities located on the North Campus. Several of the old "200" infirmary wards were converted from patient wards to offices. The library, which had been housed in the old chapel on Erickson Avenue, was transferred in 1967 to Building 601 on the North Campus.

With the number of patients decreasing dramatically on the South Campus by the mid-1960s, Bonita Hall, which had served as a recreational facility and canteen for the patients, was closed and remodeled into offices. More changes to South Campus included the closure of the Dining Room and Kitchen, located opposite Buildings 30 and 40, in the mid-1960s, the staff residency in Wards 105 and 106 and the Bathhouse Building in the late 1960s. Subsequently, the ward buildings and the Bathhouse Building were used to store supplies and records and a portion of the Dining Room was readapted for use as a Print Shop.

During this period there were several new projects constructed on South Campus. In 1966, a new $1,000,000 steam plant, along with a 200,000 gallon water tank (respectively LACO #5548 and LACO #5547), were built on the corner of Hawthorn and Esperanza Streets, necessitating the removal of several of the 40-year old employee cottages. Built to compensate for the increasing number of facilities on North Campus, which required more power and energy than the older buildings of the prewar period, the new steam plant also had to provide power for a larger staff and patient population (there were 1,957 patients in 1967 and by the end of the decade, a staff of 2,869) (Fliedner, 1990: 312; 317). By the end of the 1960s and the beginning of the 1970s those requiring rehabilitative care were supplanting the long-term, chronically ill patient. Part of this reduction in the housing of the chronically ill and elderly was due to recently passed federal programs, such as Medicare, which provided similar services to those offered by Rancho Los Amigos. Following the passage of the federally implemented laws, Rancho's chronically ill and elderly population dropped drastically. Now, more than ever, it saw its role as a provider of rehabilitation programs to treat the long-term care of those debilitated by strokes, brain traumas, paralysis, and accidents.

In 1970 Rancho Los Amigos was given official recognition by the Commission on Accreditation of Rehabilitation Facilities (CARF) when it was accredited by CARF as a rehabilitation center (Fliedner, 1990: 316). Over the next decade the North Campus continued to expand. In 1971 the University of Southern California's (USC) Departments of Physical and Occupational Therapy relocated on the South Campus,

occupying for a time, Buildings 30, 40, 50 and 70, until they returned to USC in 1988. In 1971 the Whittier Narrows earthquake damaged a number of the older buildings on the South Campus. This, coupled with the inflationary period of the 1970s, and the passage of Proposition 13 in 1978, effectively placed a ceiling on government spending and impacted dramatically both the building and maintenance programs at Rancho Los Amigos. As a result only a few of the buildings projected by the Rancho's 1970 master plan were ever built and brought to a halt the implementation on the North Campus of a new rehabilitation center, a 210-bed Catastrophic-Illness Center, and a 30-bed Clinic Building.

Over next several decades the South Campus would see a gradual decline in the use and maintenance of its buildings. Deterioration through benign neglect had rendered a number of the buildings unusable, and in some cases, unsafe. By the early 1990s a majority of the buildings on the South Campus had been abandoned or employed for passive purposes, primarily as storage for records and papers. The older buildings, whose function was no longer applicable for more current times, simply had lost their relevance. This situation was exacerbated by the damage caused to many of the buildings during the 1994 Northridge earthquake. Today, the South Campus is essentially abandoned. Many of the buildings are no longer safe, their poor physical condition due in many cases to earthquake damage and deferred maintenance. More recently a number of these buildings have been further ravaged by acts of arson and vandalism.

The South Campus stands today as a ghost of its once productive past. Its agricultural and animal husbandry components, including much of its acreage, are gone. Of the some 40 buildings once associated with its farming and dairy years, only three or four remain. Its patient wards, as well as buildings associated with the long-term patient care of the chronically ill, such as employee housing, the Auditorium, the Laundry Building, the old chapel, the Harriman House and the Administrative Building, either have been demolished, closed or readapted and in some cases, reconfigured for alternative uses. If one were to look back at the 116-year history of the South Campus

the change over the succeeding years would reveal how dramatically the function and condition of this component of Rancho Los Amigos has changed.

4.0 EXISTING CONDITIONS ASSESSMENT OF RANCHO LOS AMIGO, SOUTH CAMPUS

The following section of the report includes a description of the South Campus of Rancho Los Amigos as well as architectural descriptions for each of the existing buildings. The description includes a summary of alterations and additions to each building or structure.

The South Campus of Rancho Los Amigos

The South Campus of Rancho Los Amigos is designed around an orthogonal street grid. The two main streets, Erickson Avenue and Consuelo/Descanso Streets divide the campus into four quadrants (see Figure 2). To some degree the four quadrants were devoted to different functions. The northwest quadrant contained staff housing, one-story patient wards, the power plant and main kitchen. The northeast quadrant housed the psychopathic men's and women's wards. The southwest quadrant contained the main infirmary wards, men's wards, support facilities for the Rancho, as well as a number of farm buildings and livestock pens. The southeast quadrant contained the main administrative building, the director's house, greenhouses and part of the main farm complex.

4.1 Northwest Quadrant (bounded by Descanso Street, Erickson Avenue and Imperial Highway (see Figure 2):

General Description

The northwest quadrant contains one of the most imposing buildings in South Campus, the Power Plant/Ice House complex (Building #1300-1302) (Figure 17). This

large brick and concrete building encompasses several wings, a 100,000 gallon water tower and a wood cooling tower, built between 1909 and 1925. To the west of the power plant are two ranges of one-story, wood frame patient wards (Building #1189-1201) that fill the two blocks between Hawthorn, Descanso, Laurel and Esperanza Streets (Figure 18). The large one-story concrete building located just north of the patient wards at the intersection of Laurel and Esperanza Street, was built in 1926 (Building #1295). Two one-story wood frame cottages are located east of the kitchen at the intersection of Hawthorn and Flores Streets (Building #1121 and 1123). A circular metal tank (Building #5547), built sometime after 1930, is located just south of the cottages.

Building Inventory for the Northwest Quadrant

LACO #1121 (Staff Cottage)

Located near the intersection of Hawthorn and Flores Streets this wood-frame, single-story vernacular building is one of two surviving examples of staff housing at Rancho Los Amigos (Figure 19). The rectangular building is supported by a concrete slab foundation. Its cross-gabled roof is covered in a combination of rolled asphalt and composition shingles. Triangular wood brackets support the roof's projecting eaves. The wood frame cottage is clad in horizontal lapped wood siding. Its wood-frame windows are one-over-one single hung sash type.

East Elevation

The east elevation functions as the cottage's primary façade. Its entrance door is embellished with a decorative gable. The roof's eave extends over a projecting stoop that is capped by a shed-roofed porch supported by wood posts. A four-step concrete stoop leads to a single leaf front door. On the south side of the elevation a wood shed has been attached to the side of the cottage.

West Elevation

The west elevation mimics the design and details of the east elevation. The elevation's doorway is approached by a wheelchair ramp with a metal pipe style railing.

LACO #1123 (Staff Cottage)

Located near the intersection of Hawthorn and Flores Streets, just west of Building #1121, this wood-frame, single-story vernacular building is one of two surviving examples of staff housing at Rancho Los Amigos (the other is Building #1121). The rectangular building is supported by a concrete slab foundation. Its cross-gabled roof is covered in a combination of rolled asphalt and composition shingles. Triangular wood brackets support the roof's projecting eaves. The wood frame cottage is clad in horizontal lapped wood siding. Its wood-frame windows are one-over-one single hung sash type.

East Elevation

The east elevation of the cottage functions as the building's rear elevation. It has two separate entries located at the top of a five-step concrete stoop placed in the center of the elevation.

West Elevation

The west elevation is the cottage's primary elevation. Its entrance is embellished with a decorative gable-end (Figure 20). The extended eave shelters a projecting stoop capped by a shed roof. A wood single-leaf door is the primary entry. The stoop has metal pipe railings.

North Elevation

The north elevation faces toward Flores Street. A centrally placed doorway placed at the top of a concrete stoop provides access to the cottage's interior.

South Elevation

The south elevation is linear in configuration. Its fenestration is comprised of an asymmetrical arrangement of wood sash windows.

LACO #1189-1197 (One-Story Infirmary Wards)

Nine freestanding one-story wood frame wings are linked by a continuous portico on the south side of each ward (Figures 21 and 22 and see Figure 2). Each ward is capped by a modestly pitched, composition shingle roof. Skylights have been inserted in some of the ward's roofs. Recessed doorways are located on the north and south elevations (Figure 23). Each ward is capped by hipped roofs and is clad in horizontal wood siding. The fenestration of the west elevation is comprised of a linear arrangement of wood sash windows. The east elevation's fenestration is comprised of a linear arrangement of multi-light wood windows. The interior of each ward is comprised of two large rectangular wards, flanked at their south end by smaller rooms that were used for staff room, a small kitchen and bathrooms. At the east end of the building a rectangular room acted as a vestibule to the main ward.

LACO #1189-1197: Post-Construction Alterations and Modifications:

Building #1197

At mid-point of the east elevation, a flat-roofed, stucco clad projection with a single door and window has been added (construction date unknown). Another addition,

Building #1189

A carport has been added to the west elevation of Building #1189. A concrete ramp has been added to the building's north elevation. A concrete loading dock, capped by a metal awning, has been added to the east elevation. On the east elevation a concrete ramp allowing access to entrance door was added at an unknown date.

LACO #1198 and 1199 (one-story infirmary wards)

Buildings #1198-1199 consist of two freestanding one-story wood frame wards linked by a continuous portico on the south side of each ward (Figure 24). A modestly pitched, composition shingle roof caps each ward. Skylights have been inserted in the roof of each ward. Recessed doorways are located on the north and south elevations. Each ward is capped by a hipped roof and is clad in horizontal wood siding. The fenestration of the west elevation is comprised of a linear arrangement of wood sash windows. The east elevation's fenestration is comprised of a linear arrangement of multi-light wood windows (Figure 25). The interior of each ward is comprised of two large rectangular wards flanked at their south end by smaller rooms that were used for staff room, a small kitchen and bathrooms. At the east end of the building a rectangular room acted as a vestibule to the main ward.

LACO #1198 and #1199: Post-Construction Alterations and Modifications:

Originally, this complex of buildings included four free-standing wards whose south elevations were linked by a continuous portico (see Figure 4a). Sometime between 1999 and 2002 two of these wards, Buildings #1200 and #1201 were demolished.

LACO #1295 (Kitchen and Employee Dining Room)

Architectural Description

Built in 1926, this one-story, flat-roofed, concrete building is an example of Stripped Classicism, a style that enjoyed widespread popularity for public works projects during the late 1920s and 1930s (Figure 26). The building's footprint consists of an irregular rectangle with projecting elements on the east and west elevations. At the top of the wall plate a projecting cornice delineates the base of the solid parapet that hides the flat roof from view. The building's fenestration is comprised of a linear arrangement of multi-light casement windows.

The east elevation functions as the building's primary façade (Figure 27). It has two entrances placed on the north and south sides of a projecting wing. The doors are double-leaf, with single lights and transoms. A six-step concrete stoop leads to the left door and a wheelchair ramp allows universal access to the right door. Both entries have metal pipe handrails. At the left end of the building is a concrete loading dock with a metal roll-up freight door. The north elevation is comprised of a projecting wing flanked on its east side by a slightly recessed wing (Figure 28). A loading dock is inset into this elevation. Metal stairs lead to the roof on the left corner. Concrete stairs at the left corner of the elevation lead to the basement. The west elevation is comprised of a centrally placed recessed element flanked by slightly projecting wings (Figure 29). The south elevation is comprised of a number of projections and recessions.

LACO # 1295: Post-Construction Alterations and Modifications:

North Elevation:

Aluminum vertical sliders have replaced the original wood sash windows.

South Elevation:

Aluminum vertical sliders have replaced the original wood sash windows.

East Elevation:

Aluminum vertical sliders have replaced the original wood sash windows. A single-story metal addition with standing-seam metal siding and flat roofs supporting two loading docks has been added at the east elevation. The metal roll-up freight door may represent a later replacement.

West Elevation:

Aluminum vertical sliders have replaced the original wood sash windows.

LACO #1300 and #1301 and #1302 (Old Power Plant, Water Tower, Machine Shop, Laundry and Ice Plant)

Architectural Description (Building #1300)

Located at the northwest corner of the intersection of Erickson and Descanso Streets, the power plant building is comprised of three, one-to-three story brick and concrete wings flanked by a freestanding water tower and concrete chimney (see Figure 2). Building #1300 was built over three separate building campaigns. In 1909 a one-story brick building was constructed to house the facility's steam powered power plant. In 1926 a more monumental wing, with classically inspired embellishments was built along Erickson Avenue. Later, the building underwent further expansion when a one-story wing (Building #1302) was built off the southwest corner of the 1909 wing. Designed with a minimum of ornamental embellishments, it is an example of the type of utilitarian design common to many early twentieth century institutional buildings.

East Elevation (Building #1300)

Built in 1926-27, this wing of the building has poured-in-place concrete walls that support a steel truss roof. Facing toward Erickson Avenue the building's street façade is linear in configuration. The Classical style tripartite façade is comprised of a centrally

placed temple façade flanked on either side by flat-roofed wings (Figure 30). The temple façade is comprised of four Tuscan style pilasters that support a projecting cornice that delineates the base of a solid parapet that hides the building's flat roof. The cornice supports a triangular pediment. A centrally placed doorway is flanked on either side by multi-light metal frame windows. The flanking wings are linear in configuration, and are capped by a continuous cornice that runs the length of the elevation (Figure 31). Their fenestration consists of a series of symmetrically arranged, multi-light metal windows that provide light to the building's two-story tall power room. The Power Plant was built to house four steam-driven turbines that provided power and heat to the Rancho campus.

South Elevation (Buildings # 1300, #1301 and #1302)

The south elevation consists of three wings built over a period of 19 years. A projecting wing of Building #1300 forms the east end of the elevation. The wing's centrally placed doorway is flanked on either side by oversized rectangular windows that rise to a height of two stories (Figure 32). A massive cornice, capped by a stepped parapet, caps this end of the power plant. A recessed, one story brick wing flanks the power plant. Capped by a wood truss roof, this wing of the brick building was constructed in 1909 to house the Rancho's first power plant (Figure 33). It later housed the facilities ice house and machine shop. The icehouse's large wood cooling tower, added sometime between 1933 and 1936 is located at the southwest corner of the roof. The wing's fenestration is comprised of a series of large metal frame windows. A projecting one-story brick wing (Figure 34) flanks the west end of the recessed wing. Built in 1911 this one-story brick wing was built to house Rancho's laundry. The fenestration of the south elevation of this wing is comprised of a central doorway flanked on either side by arched windows. The fenestration of the wing's east elevation is also comprised of a centrally placed doorway flanked by arched windows.

West Elevation (Buildings #1300, #1301, #1302)

The west elevation is L-shaped in configuration. The fenestration of the projecting wing at the south end of the elevation is comprised of an asymmetrical arrangement of arched and square windows (Figure 35). The recessed section of the building is comprised of the rear elevation of Building #1300. Its most notable feature is a freestanding, circular chimney that rises to a height of 125 feet (Figure 36). Built in 1927, the tower's fluting references the classical design of the 1926 power plant. The chimney is flanked by a 125-foot tall water tower that supports a 100,000-gallon water tank (Figure 37).

North Elevation (Buildings #1300 and #1301)

The north elevation, which faces toward Esperanza Street, is L-shaped in configuration. At the east end of the elevation the 1926 power plant forms a projecting wing that is flanked on its west side by the one-story wing built in 1909 (Figure 38). At the far west end of the elevation is the slightly recessed 1909 wing that once housed the Rancho's laundry facility. The fenestration of the 1909 and 1926 wings are comprised of an asymmetrical arrangement of arched windows. The north elevation of the 1926 power plant is comprised of a symmetrical arrangement of oversized metal frame windows that flank a central entrance.

LACO # 1300, #1301 and #1302: Post-Construction Alterations and Modifications

Building #1300 (including the concrete chimney)

The exterior of Building #1300 has undergone few significant alterations since its construction in 1926. However, portions of the building's interior, including its original steam turbine engines have been removed. In addition, it should be noted that over the last 35 years the building has suffered significant damage from vandalism and deferred

maintenance. The concrete chimney has remained unaltered since its construction in 1926.

Building #1301 (Water Tank)

The metal water tank and tower have undergone few, if any, alterations since their construction in 1913.

Building #1302 (former Laundry facility)

The exterior of Building #1302 has undergone a number of alterations since its construction in 1909-1926. These include the construction, in 1917, of a one-story addition at the southwest corner of the building. Sometime in the last 20 years a prefabricated metal addition was made to the northwest corner of the building. The interior has undergone several alterations over the last 50 years.

LACO #5547 (Circular Metal Tank)

This circular metal tank is located just south of Building #1121 (Figure 39). It was built in 1966.

LACO #5548 (1966 Power Plant):

The power plant is located at the northwest corner of Esperanza and Hawthorn Streets. Built in 1966, this flat-roofed, single-story brick building houses a steam power plant (Figure 40). It was constructed to replace the old power plant located across Esperanza Street. This utilitarian building is constructed of hollow concrete blocks. Three chimneys cap the power plant's flat roof. A stringcourse visually delineates the top of the wall plate from the solid parapet that hides the flat roof from view.

North Elevation

The elevation has a forty-foot-long, ten-foot-high standing seam metal insert. A metal door capped by a shed roof cover stands at the right corner. Detached metal tanks and compression equipment are located near the building's northwest corner.

South Elevation

The building's primary entrance is placed near the east end of this elevation. The primary entry is through a set of glass door enclosed with a decorative glass surround. A projecting metal roof supported by wood posts shelters the entry.

East Elevation

A metal roll-up door allowing access to the building's interior is placed near the north end of the elevation.

West Elevation

The west elevation faces toward Hawthorn Street. It is comprised of a slightly projecting element at the south end of the elevation that houses a doorway that accesses the building's interior.

LACO #5548: History and Post-Construction Alterations and Modifications:

The power plant was built in 1966 to replace the older facility that was completed in 1926. The new power plant is still in operation.

4.2 Northeast Quadrant

The northeast quadrant is delineated by Consuelo Street to the south, Erickson Street to the west, Imperial Highway to the north and to the east by the property boundary of Rancho Los Amigos (see Figure 2). A total of 22 buildings, almost all devoted to patient services, are located in this part of the Rancho site. The largest building in this quadrant is the former Men's Psychopathic Ward located on the southeast corner of the Erickson Avenue and Golondrinas Street. This building is comprised of a large quadrangle that surrounds a central courtyard containing ten small structures and buildings (Building 303-304/307-308). Just north of the Men's Psychopathic Ward is a large one-story building (Building #5028) that once housed patient wards.

Another large quadrangle is located across Flores Street from the Men's Psychopathic Ward (Building #301-302/305-306). This one-story brick building originally functioned as the Women's Psychopathic Ward. Within its quadrangle are four small structures. A small one-story L-shaped building, located near the southwest corner of the Women's Psychopathic Ward, once functioned as the Rancho's chapel. Casa Consuelo, a large, two-story, H-shaped building is located at the corner of Dahlia and Consuelo Streets. The landscaping of this part of the campus is characterized by large expanses of lawn with foundation plantings around the perimeters of the larger buildings. Street trees line parts of Erickson, Golondrinas and Dahlia Streets.

LACO #5028 (former patient ward building)

Built in 1963, this one-story T-shaped building replaced the one-story wards located at the intersection of Descanso and Hawthorn Streets (Figure 41). Capped with a flat roof, and clad in a combination of brick and stucco, the building is an example of Second Modernism, the dominant architectural style for corporate and institutional buildings from the mid-1940s through the late 1960s.

West Elevation (Street Façade)

Facing toward Erickson Avenue, the west elevation is linear in configuration. Its symmetrical arrangement of fenestration is centered on the centrally placed front entrance. Square posts support the building's oversized projecting parapet.

North Elevation (facing toward Imperial Boulevard)

The north elevation is L-shaped in configuration. The façade of the projecting wing is clad in brick and is unbroken by doorways or fenestration. The fenestration of the recessed wing is comprised of a series of ribbon windows that provide light to the individual wards.

East Elevation

The east elevation is comprised of a centrally placed projecting wing flanked on either side by recessed wings. Its fenestration is comprised of a series of ribbon windows interrupted by the occasional door. The façade of the projecting wing has a centrally paced entrance that accesses the main corridor of this wing of the building.

South Elevation (facing toward Golondrinas Street)

The south elevation is essentially a mirror image of the north elevation.

LACO#5028: History and Post-Construction Alterations and Modifications:

A number of modifications have been made to the building. These include the replacement of several windows and doors. Overall the building has retained good physical and visual integrity.

LACO #1204/1205

Building #1204/1205 was constructed over a 17 year period between 1907 and 1924 to house wards for male psychopathic patients. Designed around a central courtyard, the brick building is composed of two u-shaped buildings that form a quadrangle (see Figure 2). Within the building's central courtyard are ten accessory buildings and structures that housed restrooms, linen rooms, and outdoor shelters for the patients.

West Elevation (Street Elevation, facing toward Erickson Avenue)

The west elevation is the building's street façade. It is comprised of a central projection (with a modified front gable roof) flanked by recessed wings that are capped by a modified hipped roof with triangular vents (Figure 42). The façade is clad in metal siding that simulates the appearance of wood siding. At the center of the façade a porch shelters the building's main entrance. The fenestration of the recessed wing is comprised of sliding metal windows.

North Elevation (Facing toward Golondrinas Street)

The north elevation is linear in configuration. It is comprised of two wings that are linked by a concrete masonry wall (Figure 43). The eastern wing is part of Building #1205 and the western wing is part of Building #1204. Each of the wings is linear in configuration, with a two-story, flat-roofed block at its midpoint. The fenestration of both wings is essentially symmetrical, with a balanced arrangement of rectangular or arched windows. The west wing is sheathed in the same type of metal cladding that is found on the building's façade. The windows are the same type of metal sliders that are found on the façade. The east wing has the same configuration as the west wing. However, the wing's original brick walls have not been sheathed in metal siding and the original wood sash windows, placed in arched or rectangular openings, are still in place.

East Elevation (Facing toward Dahlia Street)

In its configuration and design, the east elevation of Building #1204 references the west elevation of the Men's Psychopathic Ward (#1205) (Figure 44). The wing at the center of the façade has a projecting porch that shelters the wing's primary entrance. The recessed wings on either side of the porch are linear in configuration. Their fenestration is comprised of a symmetrical arrangement of rectangular wood sash windows.

South Elevation (Facing toward Flores Street)

The south elevation of the Men's Psychopathic Ward recapitulates the appearance and configuration of the building's north elevation (Figure 45). However, the building's two wings are not linked by a wall, as is the case with the north elevation. Instead, a small freestanding building, capped by a front gable roof, fills the gap between the two wings. The west wing is sheathed in the same type of metal siding that is found on the building's west elevation. The fenestration of the west wing of the building is comprised of an essentially symmetrical arrangement of arched and rectangular windows. At the east end of Building #1205 is a small front gable building (Building #3820) that is placed on an elevated platform. The east side of Building #3820 is flanked by the south elevation of Building #1204. The fenestration of this wing recapitulates the south elevation of Building #1205.

Interior Courtyard of Building #1204/1205

The interior of the Men's Psychopathic Ward Building is a large courtyard that houses a symmetrical arrangement of ten small buildings and ancillary structures (see Figure 2). The courtyard's west elevation is comprised of recessed wings that flank a centrally placed projecting element (Figure 46). At either end of the elevation are two wood frame sunrooms, whose fenestration is comprised of a series of wood frame sash windows (Figure 47). The fenestration of the projecting block is comprised of large,

rectangular wood sash windows that flank a centrally placed doorway. The fenestration of the recessed wings is comprised of a symmetrical arrangement of arched and rectangular wood sash windows. The north elevation is linear in configuration. It is comprised of the side wings of Building #1204/1205. Its fenestration is primarily wood sash windows placed in arched or rectangular window openings. At the centerpoint of the interior elevation a stucco-covered cinderblock wall links the building's freestanding wings. The south interior elevation recapitulates the appearance of the north elevation (Figure 48). At the elevation's centerpoint a small front gable building (Building #3820) fills the gap between the side wings of Building #1204 and Building #1205.

Buildings and Structures within the Central Courtyard

Eleven small buildings and structures are located within the courtyard of Building #1204/1205 (see Figure 2). Three of the buildings are brick construction, four are prefabricated metal, one is wood frame and the remaining three are free standing metal canopy shelters (see Figures 49-57).

LACO#1243 (Canopy Shelter)

This narrow, rectangular prefabricated metal canopy shelter is located at the north end of the courtyard (Figure 49). It is capped by shallow metal shed roof. The structure was erected sometime between the early 1960s and the mid-1970s (the building is depicted on a 1974 map of the facility). It replaced an earlier canopy shelter depicted on a 1929 site plan of Rancho Los Amigos.

LACO#1244

This small, rectangular brick building is set on an elevated foundation. It is axially aligned with Building #1205. The building is capped by hipped roof and its fenestration is comprised of wood sash windows (see Figure 53). Doorways on the east

and west elevations provide access to the toilet facilities. The building was constructed in 1916 to house toilet facilities for the inmates of the psychopathic wards.

LACO#1245

This small, rectangular brick building is set on an elevated foundation. It is placed at the center of the courtyard and is axially aligned with the gap between Building #1204 and Building #1205. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Doorways on the east and west elevations provide access to the interior. The building was constructed sometime between 1917 and 1925 as a linen room for the Men's Psychopathic Wards.

LACO #1246

Building #1246 is axially aligned with the center of Building #1204. This aluminum canopy shelter is comprised of metal poles supporting a slightly pitched metal roof. The shelter was erected sometime between the early 1960s and the mid-1970s (the shelter is depicted on a 1974 map of the facility; however, it does not appear on the Sanborn Fire Insurance maps of the Rancho.

LACO #1249

This small, rectangular brick building is set on an elevated foundation. It is axially aligned with Building #1204. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Doorways on the east and west elevations provide access to the toilet facilities. The building was constructed to house toilet facilities for the inmates of the psychopathic wards.

LACO #1251

This narrow, rectangular prefabricated metal canopy shelter, supported by metal poles, is located in the northwest quadrant of the courtyard (see Figure 54). The shelter was erected sometime in the late 1950s or early 1960s (the shelter is depicted on a 1974 map of the facility; however, it does not appear on the Sanborn Fire Insurance maps of the facility.

Aviary (no number)

The aviary is a small rectangular structure capped by a gable roof (Figure 55). Its walls are primarily comprised of screening. Built in the late nineteenth century the aviary was originally located adjacent to the 1889 Office Building.

LACO #2434

Building #2434 is located in the southwest quadrant of the courtyard. This prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof (see Figure 51). Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. This building was erected in 1949. The original function of this structure is unknown. In later years it was used as a gymnasium.

LACO #2435

Building #2435 is located in the northwest quadrant of the courtyard. This prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. This building was erected in 1949. The original function of the structure is unknown.

LACO #2436

Building #2437 is located in the northeast quadrant of the courtyard. This prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. The building was erected in 1949. The original function of this structure is unknown.

LACO #2437

Building #2437 is located in the southeast quadrant of the courtyard. Like Building #2436, this prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. The building was erected in 1949. The original function of this structure is unknown.

LACO #3820

This small, stucco clad, rectangular building is placed in the center of the south elevation, in the gap between the wings of Building #1204 and Building #1205. It is placed on an elevated platform that allows its south elevation to function as a loading dock for trucks (see Figure 58). The north elevation is accessed via a concrete ramp that leads to a centrally placed doorway. Small windows are placed on the east and west elevations. The building was constructed in 1954.

LACO #1204/1205: History and Post-Construction Alterations and Modifications:

In 1925 the facility consisted of Buildings #1204 and #1205, as well as four small brick building in the courtyard that housed toilets and a linen room. In the mid-1930s the dining room in Building #1205 was extended into the courtyard. This alteration necessitated the demolition of one of the brick toilet buildings. At a later date the two

porches on the east elevation of Building #1205 were enclosed. Shortly after 1945 the north, south and west elevations of Building #1205 were clad in metal siding and the original roof was replaced with composition shingle. As part of this renovation metal frame windows replaced the west elevation's original wood sash windows and the roof of the front porch was altered from a hipped to a front gable roof. Building #1204, which has undergone relatively few alterations since its construction in 1925, has largely preserved its original configuration. A number of alterations have been made to the courtyard since 1925, including the erection of several prefabricated metal buildings in 1949. In 1952 a small wood frame building (Building #3820) was constructed to fill the gap between Building #1204 and Building #1205. The two of the three existing canopy shelters in the courtyard represent replacements of canopy shelters erected in 1916. In the 1950s the facility began to transfer patients out of the Men's Psychopathic Wards to other facilities. By 1963 the buildings no longer functioned as patient wards. For the next 40 years the former wards were used for staff offices, to house patient services and finally as an informal records storage facility.

LACO#1202/1203 (Women's Psychopathic Ward)

In 1919 construction began on a building to house female psychopathic patients. The one-story brick building (Building #1203) was u-shaped in configuration and its primary façade faced toward Erickson Avenue. In 1924-25 the women's wards were expanded through the construction of another u-shaped building, Building #1202, placed to the east of Building #1203. After the completion of Building #1202 the Women's Psychopathic Wards consisted of a quadrangle with a central courtyard that contained three freestanding building housing toilets and a linen room. The courtyard was landscaped with pathways and plantings for the use of the ward's inmates. In their design, materials and architectural scheme the women's wards recapitulate the Men's Psychopathic Ward Building on Flores Street. The vernacular style one-story buildings are constructed of brick masonry, and are capped by complex hipped roofs covered in composition shingles. Both buildings' fenestration is comprised of wood frame sash windows set into arched window openings. The main exterior entrances are located at

the center of the north elevation of Building #1203 and the south elevation of Building #1202.

West Elevation (Street Façade) (Building #1203)

The west elevation is comprised of a recessed central block, flanked on either side by projecting wings (Figure 59). It is entirely clad in metal siding. A hipped roof caps the centrally placed entrance porch. A set of double metal and glass doors provides access to the interior. Secondary entrances are located at the end of the projecting wings. The entrance porch is flanked on either side by a series of metal framed windows.

North Elevation (Building #1202 and Building #1203)

The north elevation is comprised of the side wings of Building #1202 and Building #1203 (Figure 60). The elevation is linear in configuration with the exception of small projections at its east and west ends. At the building's centerpoint a small brick building, capped by a gable roof, fills the gap between the north elevation's two wings. Fenestration is comprised of a series of rectangular windows that provide light to the interior.

East Elevation (Building #1202) (facing toward Dahlia Street)

The east elevation mirrors the west elevation's configuration and design scheme (Figure 61). However, unlike the west elevation, it has not been clad in metal siding and it retains its original multi-light wood sash windows.

South Elevation (Building #1202 and Building #1203) (facing toward Consuelo Street)

The south elevation recapitulates the configuration and design scheme of the west elevation. At its centerpoint a masonry wall links the side wings of Building #1202 and Building #1203 (Figure 62).

Interior Courtyard of Building #1202/1203

The interior of the Women's Psychopathic Ward Building recapitulates, on a smaller scale, the design scheme of the adjacent Men's Psychopathic Wards (Building #1204 and Building #1205). It is configured as a large courtyard that houses a symmetrical arrangement of four small buildings and ancillary structures (see Figure 2). The courtyard's west elevation is comprised of recessed wings that flank a centrally placed projecting porch (later enclosed). The fenestration of the projecting block is comprised of large, rectangular wood sash windows that flank a centrally placed doorway. The fenestration of the recessed wings is comprised of a symmetrical arrangement of arched and rectangular wood sash windows. The north elevation, with the exception of small projections at its east and west ends, is linear in configuration. It is comprised of the side wings of Building #1202 and Building #1203. This elevation's fenestration is primarily wood sash windows placed in arched or rectangular window openings. At the centerpoint of the interior elevation Building #1240 fills the gap between the building's freestanding wings. The south interior elevation, with its series of wood sash windows, essentially recapitulates the scheme of the north elevation. At the elevation's centerpoint a masonry wall fills the gap between the side wings of Building #1202 and Building #1203.

Buildings and Structures within the Central Courtyard

Four small buildings and structures are located within the courtyard of Building #1203 and Building #1204. Three of the buildings are brick construction and one is prefabricated metal.

Building #1239

Built in 1924-1925, this small, rectangular vernacular style brick building is set on an elevated foundation. It is axially aligned with Building #1202 (Figure 63). The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Concrete ramps lead to doorways on the east and west elevations that provide access to toilet rooms. The building was constructed to house toilet facilities for inmates of the psychopathic wards.

Building #1240

This rectangular shelter building is placed at the center of the quadrangle's courtyard. Available documentation suggests that it was built in 1930 (Figure 64). It replaced an earlier wood canopy that is depicted on the 1929 Fire Insurance Map of Rancho Los Amigos. The structure was built to provide shade for the inmates of the psychopathic ward.

Building #1241

Built in 1924-25, this small, rectangular vernacular style brick building is set on an elevated foundation (Figure 65). It is placed in the gap at the center of the north elevation. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Concrete ramps lead to doorway on the north elevation. The building was constructed as a linen storeroom. It was later used as a women's gymnasium.

Building #1242

Built in circa 1919-1925, this small, rectangular vernacular style brick building is set on an elevated foundation. It is axially aligned with Building #1203. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Concrete ramps lead to doorways on the east and west elevations that provide access to toilet rooms. The building was constructed to house toilet facilities for inmates of the psychopathic wards.

LACO#1202/1203: Building History and Post-Construction Alterations and Modifications:

Buildings #1202 and #1203 were built over a six-year period between 1919 and 1925. In 1919 Building #1203, which comprised the west side of the present quadrangle, was opened. The new building was almost immediately filled to capacity. Four years later, in 1924, construction began on Building #1202. It was designed as a mirror image of the existing west wing. As part of this expansion project, two brick toilet buildings, a linen room, and a free standing canopy shelter, were built in the courtyard. At a later date the courtyard's two porches were enclosed. In the post World War II period the entire west elevation and portions of the north and south elevations of Building #1203 were clad in metal siding. As part of this renovation metal frame windows replaced the west elevation's original wood sash windows and the original front entrance doors were replaced by glass and metal doors. Building #1202, which has undergone relatively few alterations since its construction in 1919, has largely preserved its original configuration. A number of alterations have been made to the courtyard since 1925, including the replacement of its original metal canopy shelter (Building #1240). In the 1950s the County began to transfer patients out of the Women's Psychopathic Wards to other facilities. By 1963 the buildings no longer functioned as patient wards. For the next 40 years the former wards were used for staff offices, to house patient services and finally, as informal records storage facilities.

LACO#1254 (Former Chapel)

The former chapel is located just southwest of the Women's Psychopathic Ward building (see Figure 2). Built in 1907, the L-shaped wood frame building is capped by an intersection front gable roof with boxed eaves. The building is clad in metal siding.

West Elevation (facing toward Erickson Avenue)

The west elevation is comprised of a projecting wing that is flanked on its south side by a recessed wing (Figure 66). The projecting wing, which once functioned as the chapel for Rancho Los Amigos, has an elevated front porch capped by a hipped roof. The porch shelters the building's main doorway. It is flanked on either side by metal frame windows set into rectangular openings. A doorway, accessed via a concrete ramp, is placed at the north end of the recessed wing.

North Elevation

The north elevation is linear in configuration. Its fenestration is comprised of a series of five metal windows set into rectangular openings.

East Elevation (rear elevation)

The east elevation is linear in configuration. It is comprised of the rear elevation of the chapel and the side elevation of the attached wing. Its fenestration is comprised of a series of rectangular metal frame windows.

South Elevation (facing toward Consuelo Street)

The south elevation is comprised of a recessed wing flanked on the east by a projecting wing. The fenestration of the projecting wing is comprised of two aluminum

sliders. The fenestration of the former chapel is a series of four metal frame windows. A concrete ramp, leading to a door, flanks the entire length of the chapel's side elevation.

LACO #1254 Building History and Post-Construction Alterations and Modifications:

The chapel was built in 1907. This vernacular style building was originally about 50 feet north of its current location. The building was moved in 1919 to make way for the Women's Psychopathic Ward. In 1955 the chapel was replaced by a larger double chapel located near the intersection of Dahlia and Consuelo Streets. The building has undergone several significant modifications since 1919. These include the replacement of the original windows, the re-cladding of the exterior with metal siding and the addition of a wing to the south elevation. Based on the type of metal cladding and the style of the replacement windows these alterations took place sometime after 1955.

LACO#1238 (Casa Consuelo)

Casa Consuelo is a two-story, H-shaped reinforced concrete and tile building located near the intersection of Dahlia and Consuelo Streets (see Figure 2). It is set in an expanse of lawn and is surrounded by foundation shrubs. Large fan tail palms delineate the perimeter of the building. The building was built in 1928 as a women's residential ward. Capped by end gable roofs covered in c-shaped terra cotta tiles, and embellished with arcades and wrought-iron balconies and staircases, Casa Consuelo was designed in the Spanish Colonial Revival style.

West Elevation (facing toward Erickson Avenue)

The west elevation is comprised of a number of projections and recessions. Its first floor and second floor fenestration consists of a balanced arrangement of wood casement windows. At the south end of the elevation an iron staircase provides access from the second floor to the ground level.

South Elevation (facing toward Consuelo Street)

The south elevation is comprised of recessed courtyard flanked on either side by linear wings (Figures 67 & 68). The courtyard is embellished with an arcuated portico capped by a solid parapet. On either side of the arcade flat-roofed towers embellished with wrought-iron balconies on the second floor, rise above the eave line. The towers are flanked by linear wings whose fenestration is comprised of a double row of rectangular wood casement windows. Double French doors are placed in the tower's second floor and at the end of each wing.

East Elevation

The east elevation is u-shaped in configuration. The elevation's projecting wings are linked by an arcuated portico (Figure 69). At the center of the façade a set of double doors provides access to the buildings interior. The fenestration of the east elevation consists of a symmetrical arrangement of wood casement windows.

North Elevation (facing toward Building #1202/1203)

The north elevation recapitulates the configuration and design scheme of the south elevation configuration. The elevation's projecting wings are linked by an arcuated portico (Figure 70). Its fenestration is comprised of a balanced arrangement of wood casement windows.

LACO #1238 Building History and Post-Construction Alterations and Modifications:

By the late 1920s the women's residential ward located across Erickson Avenue from the power station had become overcrowded; this despite the fact that a large addition had been made to the building in the mid-1920s. In order to alleviate this problem, a large two-story H-shaped building was constructed just east of the old

women's ward. Post-construction alterations to the building's exterior have been fairly modest. These include the replacement of a number of exterior doors.

Building #3592 (former Protestant, Jewish and Roman Catholic Chapels)

Building #3592 was constructed 1955 to replace the smaller chapel built in 1907 (Building #1254). It is comprised of two chapels set at right angles to each other (Figure 71). The Protestant/Jewish chapel and Catholic chapel are joined at the rear which creates an L-shaped configuration. The roof is front-gabled with an intersecting gable at the northern end. Roof materials are composition shingles and the wall cladding is stucco. Fenestration is primarily three-light, double metal casement type.

West Elevation (facing toward the Consuelo Street)

The west elevation is comprised of the projecting wing that forms the Roman Catholic chapel and side elevation of the Protestant/Jewish chapel. The facade of the former Roman Catholic chapel is capped by a front gable roof. A one-story tall shed-roofed porch shelters the centrally placed double entrance doors. A quatrefoil window is placed below the peak of the slightly projecting roof. A Mission Style bell tower is placed at the peak of the roof. The side elevation of the Protestant/Jewish chapel is linear and comprised of lower aisles flanking a taller nave. The fenestration of the nave and aisles is comprised of a symmetrical arrangement of multi-light, metal hopper windows. At the south end of the Protestant/Jewish chapel a one-story porch shelters the door leading to the chapel's vestibule.

South Elevation (facing toward Consuelo Street)

The south elevation is comprised of the façade of the Protestant/Jewish chapel and the side elevation of the Roman Catholic chapel. A Mission Revival style bell tower (similar to that of Mission San Gabriel) stands on the west end of the façade of the Protestant/Jewish chapel. This bell tower has three arched openings for bells. A

centrally placed round window is above the shed roofed entrance porch of the Protestant/Jewish chapel. The porch roof is supported with square piers. Two porches, capped with side-gabled roofs and supported with piers, project from the ends of the Protestant/Jewish chapel. The fenestration of this elevation of the Roman Catholic chapel is linear in configuration. This elevation of the Roman Catholic chapel is linear and comprised of a lower aisle flanking a taller nave. The fenestration of the nave and aisles is comprised of a symmetrical arrangement of multi-light, metal hopper windows.

East Elevation

The east elevation is comprised of the nave of the Protestant/Jewish chapel and the rear elevation of the Roman Catholic chapel. Fenestration is a symmetrical arrangement of metal casement windows. A one-story wing that projects from the sanctuary of the Roman Catholic chapel is attached to the rear of the Roman Catholic chapel.

North Elevation

The north elevation is comprised of the nave of the Roman Catholic chapel and the rear elevation of the Sanctuary of the Protestant/Jewish chapel. The fenestration of the nave is a symmetrical arrangement of metal casement windows. A one-story wing that projects from the Protestant /Jewish chapel's sanctuary is attached to the rear of the Roman Catholic chapel.

LACO#3592: Building History and Post-Construction Alterations and Modifications

As noted above the chapels were built in 1955 to replace the chapel built in 1907. The newer chapel was the last building constructed on the Rancho campus designed in a Mediterranean Style. By the mid-1950s the style had become less fashionable compared to the 1920s and 1930s when period revival styles enjoyed great popularity. In the

postwar period architectural motifs, ranging from Minimal Traditional to Ranch to Second Modernism achieved greater success in both residential and non-residential design. However, in the case of ecclesiastical architecture, the Mediterranean style continued to be favored by a number of churches. Both chapels continued to be used for religious services until sometime in the late 1960s or early 1970s. Since their closure the building has been used occasionally for meetings. It should be noted that Building #3592 has undergone no significant alterations since its construction in 1955.

4.3 Southeast Quadrant

The southeast quadrant contains the South Campus' Administrative Building and the former residence of the Superintendent (see Figure 2). Several of the few remaining buildings from the County Farm era are also located in the part of the South Campus. The Superintendent's residence is located near the intersection of Consuelo Street and Erickson Avenue. Surrounded by expansive lawns and exotic specimen trees the house is flanked on its south side by a small garage (Building #1177). To the southeast of the house is the Spanish Colonial Revival style Administrative Building (Building #1100). The former administrative building is flanked on its south side by the former post office (Building #2677). Behind and south of the Superintendent's house are nine small buildings and structures that have housed the Rancho Los Amigos' landscape department since the mid-1920s.

Across Bonita Road from the landscape department is a complex of buildings that include seven service buildings. These include the former stable (Building #1283). Located near the intersection of Erickson Avenue and Bonita Street, it is flanked on its south side by a prefabricated metal building (Building #1991). Another prefabricated metal building (Building #3591) is near the intersection of Erickson Avenue and Gardendale Street. Building #3591 is flanked on its east side by a large metal building (Building #2637) that once housed the Rancho's laundry. Just northeast of the former laundry are three wood frame building that were once part of the Rancho's farm operations. One of these is an L-shaped building (Building #1286) that faces toward

Bonita Street. Just southeast of Building #1286 is a two-story wood frame building (Building #1287) whose original use is unknown. A wood frame toilet building (Building #2492) is located just west of Building #1287.

LACO #1101 (Superintendent's House)

The Superintendent's house was built in 1915 to serve as the residence of the Superintendent of the County Farm. The two-story house is designed in the Craftsman Style, which enjoyed widespread popularity in the United States between circa 1900 and the mid-1920s. The wood frame house exhibits several character-defining elements of the style including its informal plan, use of natural materials such as wood and brick, horizontal wood siding, exposed rafter tails, overhanging eaves with triangular brackets, sleeping porches and lack of formal architectural embellishments.

North Elevation (primary façade)

The north elevation functions as the house's façade. Its most notable element is the one-story porch that runs the length of the elevation (Figure 72). Four brick piers support the porch's hipped roof. A set of brick stairs set at the east end of the elevation provides access to the porch from the front lawn. The steps lead to a Craftsman style front door that is flanked by oversized wood sash windows, one of which is set into a slightly projecting bay. The second floor is capped by a side gable roof with a small cross gable set over the projecting bay. A second floor sleeping porch, supported by brick piers, projects from the west end of the façade. The fenestration of the second floor is comprised of a number of large and small casement and sash windows.

West Elevation (facing toward Erickson Avenue)

The west elevation is asymmetrical in its massing (Figure 73). At the north end of the elevation a two-story projection, capped by a cross gable roof has a sleeping porch on its second floor and a porte-cochere on the first floor. A set of brick stairs leads from the

porte-cochere to the house's front porch. The port-cochere is flanked on its south side by a slightly projecting bay capped by shed roof. Brick piers support the small projecting wing at the south end of the elevation. The fenestration of this elevation is an asymmetrical arrangement of wood sash and casement windows.

South Elevation (facing toward Bonita Street)

The south elevation functions as the building's rear elevation. It is u-shaped in configuration (Figure 74). The eaves of the two-story wings are capped by cross gable roofs that are supported by triangular brackets. The wing on the east side of the elevation has an enclosed porch, capped by a hipped roof. Once again the fenestration is an asymmetrical arrangement of wood sash and sliding windows.

East Elevation

The east elevation is linear in configuration. It is capped by a complex gable roof. At the south end of the elevation a concrete stoop leads to a service door that is capped a shed-style metal awning (Figure 75). The door is flanked on its north side by a one-story projecting bay capped by an extension of the north elevation's porch roof. Its fenestration is comprised of wood sash windows.

LACO#1101: Building History and Post-Construction Alterations and Modifications:

Built in 1915, the house served as the Superintendent's residence until sometime in the early 1960s. After that date the house was used for a variety of purposes, including its last function as the Older Adult Center. Today the house is used as a record storage facility. In the 88 years since its construction the house has undergone a number of alterations and modifications, including the enclosure of second floor sleeping porches on south and west elevations and the enclosure of a first floor porch at the west end of the south elevation.

LACO#1177 (Superintendent's Garage)

The wood frame garage is located across an asphalt driveway and parking area from the Superintendent's house. The Craftsman Style garage was built in 1917. Many architectural details of the garage, including its wood siding, projecting side gable roof, and window types mimic those of the Superintendent's house (Figure 76).

North Elevation (Façade)

The north elevation faces toward the house. Two large garage door bays that are fitted with sliding wood doors take up most of its length. A shed-roofed carport is attached to the west end of the elevation.

West Elevation (facing toward Erickson Avenue)

A shed-roofed carport is attached to the north elevation.

South and East Elevations

Both the south and east elevation are linear in configuration. They are unbroken by fenestration or doorways.

LACO #1177: Building History and Post-Construction Alterations and Modifications:

Built in 1917, the garage served as the Superintendent's garage until sometime in the early 1960s. Sometime within the last 30 years a carport was added off of the building's west elevation. Otherwise the garage appears to have undergone few alterations since its construction.

LACO #1178 (Garden Shed)

Built in circa 1915-1922, this small wood frame structure, capped by a shed roof is located just southeast of the Superintendent's residence. The shed was used as a garden shed for the residence (Figure 77).

LACO #1178: Building History and Post-Construction Alterations and Modifications

The garden shed appears to have undergone no significant alterations since its construction in circa 1915-1922.

LACO #1100 (former Administrative Building)

This large two-story reinforced concrete office building was constructed in 1926. Several features of the building, including its intersecting gable roof covered in terra cotta tiles, stucco-clad walls, arched windows and Churrigueresque style door surround, are stylistic attributes of the Spanish Colonial Revival style.

East Elevation (Axially aligned with Consuelo Street)

The east elevation functions as the building's entrance façade. The linearity of the elevation is relieved by slightly projecting elements at the north and south ends of the façade (Figure 78). The recessed entrance is through a Churrigueresque style cast stone portal, located at the south end of the elevation (Figure 79). The portal embellishes an eight-sided tower that is capped by a domed cupola. The linear element of the façade is comprised of three large arched windows that are capped by tripartite windows on the second floor. At the north end of the elevation the projecting part of the elevation is capped by a front gable roof. The remaining fenestration of the façade is comprised of a number of small multi-light wood frame windows.

South Elevation (facing toward Bonita Street)

The south elevation, with the exception of a slight projection at its east end, is essentially linear in configuration (Figure 80). Its fenestration is comprised of series of rectangular multi-light windows on both the first and second floors.

West Elevation (Facing toward Erickson Street)

The west elevation is u-shaped in configuration (Figure 81). Its fenestration is comprised of series of rectangular multi-light windows on both the first and second floors.

North Elevation (facing toward Consuelo Street)

The north elevation is linear in configuration, with the exception of modest one-story projection at its west end (Figure 82). Its fenestration is comprised of an asymmetrical arrangement of multi-light windows on its first and second floors.

LACO #1100: Building History and Post-Construction Alterations and Modifications

Building #1100 was built in 1926 to house the administrative staff of the County Farm. For many years the staff had occupied a three-story brick building that was located just east of the Auditorium building. By the mid-1920s the old office building was in some disrepair and too small to serve the present needs of the institution. As a result, Building #1100 was constructed to replace the old administrative building. It is one of only three "high-style" Spanish Colonial Revival Style buildings at Rancho Los Amigos (the other two are Casa Consuelo (Building #1238) and the Harriman Building on the North Campus of Rancho Los Amigos). The building continued to function as the facilities administrative center until the late 1970s. It was subsequently renovated to serve as the Office of Public Safety. The building's exterior has undergone relatively few

modifications since its construction in 1926. Those alterations that have taken place are modest in scale, and have not diminished the visual or physical integrity of the building.

LACO #2677 (Post Office)

The post office is located just southeast of Building #1100. It was moved onto the campus in 1949. The one-story wood frame building is capped by a front gable roof and is clad in asbestos type shingles (Figure 83). Its fenestration is primarily multi-light wood sash windows.

East Elevation (Street Façade)

The east elevation functions as the building's façade. Two flush panel doors provide access to the building's interior.

North and South Elevations

The north and south elevation are linear in configuration. Their fenestration is comprised of a series of rectangular multi-light sash windows.

West Elevation (rear elevation)

The west elevation is linear in configuration. Its fenestration is comprised of two multi-light wood sash windows.

LACO #2677: Building History and Post-Construction Alterations and Modifications

The post office building was moved onto the campus in 1949. Built during World War II as a barracks for a nearby military base, the structure was declared surplus after the war and subsequently acquired for use as the Rancho's post office. Several

modifications, including the replacement of several doors, have been made to the building since 1949.

Landscape Department

The Landscape Department has been located just south of the former Superintendent's house since the late teens (see Figure 2). In mid-1930s it included at least three lath houses, a greenhouse, and a number of storage buildings and an office. Today only three of these buildings survive. These include the following structures:

LACO #1353: (Lath House)

The lath house is a long rectangular building located south of the Superintendent's House. Its wood frame is covered in lath. Built sometime between 1922 and 1925, the lath house was used to propagate landscape plants (Figure 84).

LACO #1353: Building History and Post-Construction Alterations and Modifications

Originally, a series of three or four lath houses were located in this part of the Rancho grounds. Two of these were in still place as late as 1974. However, in the early 1990s one of the surviving lath houses was destroyed by fire, leaving only Building #1353. The structure is dilapidated, and much of its lath is missing or damaged.

LACO #1356 (Tool House)

Built in 1933, the vernacular style tool house is capped by a front gable roof, and clad in board-and-batten siding (Figure 85). A small storage shed, capped by a shed roof, projects from the building's south elevation. Its fenestration is comprised of a number of wood sash windows. The building's primary doorway is located on the west elevation.

LACO #1356: Building History and Post-Construction Alterations and Modifications

The tool house was constructed in circa 1933. A building of similar dimension, located in the area of the Landscape Department, is depicted on the circa-1933 map of Rancho Los Amigos and it is probable that Building #1356 represents this building. The shed that projects off of the building's east elevation represents a later addition to the building. In addition, several of the original windows have been replaced.

LACO #1357: (Landscape/Nursery Office)

Located just south of the tool house, Building #1357 is a vernacular style, rectangular board-and-batten structure capped by a shed roof (Figure 86). An elevated porch capped by a shed roof, projects from the building's east elevation. The building's fenestration is comprised of aluminum slider windows of varying dimension. The primary entrance is located on the east elevation, where a flush panel wood door, located at the north end of the elevation provides access to the interior.

LACO #1357: Building History and Post-Construction Alterations and Modifications

The Landscape Office was constructed in 1938. The building's aluminum frame windows are later additions to the building. The addition of aluminum frame windows has significantly altered the building's exterior.

LACO #1284, #1373 and #1374 (Circular Tanks)

Three circular metal tanks, capped by cone-shaped roofs, are located southeast of the Landscape Office (Figure 87). The tanks are made of rectangular sheets of metal that have been riveted together. The tanks' slightly overhanging roofs are constructed of triangular sections of metal sheeting.

LACO #1284, #1373, and #1374: Building History and Post-Construction Alterations and Modifications

The three tanks post-date 1933, as they are not depicted on the aerial photograph of Rancho Los Amigos taken that year.

Building #1137 (former Dairyman's House)

This wood frame vernacular style cottage is located just east of the metal tanks, near Bonita Street (see Figure 2). The wood frame house is capped by a side gable roof, and is clad in horizontal wood siding. Its fenestration is primarily comprised of wood sash windows.

West Elevation

The west elevation is the cottage's façade (Figure 88). Its most distinguishing feature is the projecting porch that runs along most of the elevation. Square wood posts set on a solid wood parapet support the porch's shed roof. The north end of the porch has been enclosed with wood frame windows. A solid wood Craftsman Style front door is located at the north end of the porch. It is flanked on its south side by large wood frame window.

South Elevation (facing Bonita Street)

The south elevation of the cottage is linear in configuration (see Figure 88). Its fenestration is comprised of a symmetrical arrangement of two wood sash windows. A louvered vent is located just below the peak of the side gable roof.

East Elevation (rear elevation)

The projecting element at the north end of the elevation is the cottage's kitchen (Figure 89). The fenestration of this side of the building is comprised of an asymmetrical arrangement of the wood sash windows.

North Elevation

The north side of the building is linear in configuration (Figure 90). Its fenestration consists of a symmetrical arrangement of wood sash windows. A rectangular wood louver is located just under the eave line.

LACO #1137: Building History and Post-Construction Alterations and Modifications

Built in 1907, the dairyman's house is one of the oldest surviving buildings on the South Campus of Rancho Los Amigos. It was originally built as a residence for the County Farm's gardener, Fred Wyman (Fliedner, 1990: 74). Later, it became the home of the superintendent of the farm's large herd of dairy cows. Last used by the Landscaping Department for storage, it was vacated sometime in the early 1980s and has remained empty since then. The cottage has undergone a number of alterations, including, sometime after 1930, the enclosure of part of its front porch. The building is in very poor condition. Part of the kitchen roof has collapsed and much of the interior has been vandalized.

LACO #1179 (Garage for Dairyman's House)

The garage for the dairyman's house is located just northeast of the cottage (see Figure 2). It is a wood frame, single-car garage capped by a front gable roof (Figure 91). The garage's entrance is located on the south elevation. The building is clad in horizontal wood siding. The buildings other elevations have no windows or doorways.

LACO#1179: Building History and Post-Construction Alterations and Modifications

The garage was built sometime between 1907 and 1922. The building, with the exception of the replacement of the garage door, has remained essentially unaltered since its construction. The physical condition of the building is poor.

LACO #1283 (former Stable)

The former stable is an L-shaped, one-story brick building constructed in 1913. It is located at the corner of Erickson Avenue and Bonita Street. The building is capped by a flat roof that is hidden by a solid parapet. Fenestration is primarily double hung sash windows.

West Elevation (Street façade, facing Erickson Avenue)

The west elevation is linear in configuration. Its most notable feature is the arched entrance near the north end of the elevation (Figure 92). Pairs of arched windows flank the arched entrance on either side. Near the elevation's center point a rectangular window has been set into a sealed doorway. The doorway is flanked on its south side by for small arcuated windows.

North Elevation (facing Bonita Street)

The north elevation is linear in configuration (Figure 93). Its fenestration is comprised of a linear arrangement of wood sash windows of varying size.

East Elevation (rear elevation)

The rear elevation is L-shaped in configuration (Figure 94). An arched opening is set at the center of the elevation's projecting wing. A pre-fabricated addition capped by a shed roof runs the length of the recessed wing.

South Elevation

The south elevation is L-shaped in configuration (see Figure 94). A metal canopy shelters the doorway in the elevation's projecting wing. A pre-fabricated addition capped by a shed roof runs the length of the south elevation of the projecting wing. The same addition encapsulates the west end of the recessed wing. A metal canopy supported by metal poles shelters the remainder of the wing.

LACO #1283: Building History and Post-Construction Alterations and Modifications

The former stable, built to house the farm's draft horses, was a two-story building when completed in 1913. Less than a decade later its second floor was converted into a general ward for male patients. While this was intended as a temporary measure, it remained a residential ward until damage by the Long Beach earthquake of 1933 necessitated the removal of its second floor. Subsequently, the building was used to store patient's luggage (it was thereafter known as the 'Trunk Building'). Sometime, within the last 25 years, prefabricated additions were made to the east and south elevations. It is not clear as to when the building's brick walls were painted. The building's physical condition is good; however, the integrity of the building has been compromised by the additions to the first floor and the demolition of the second floor.

LACO #1286 (former garage and storage building)

Building #1286 is located south of the former stable building. This vernacular style, one-story, L-shaped wood frame building is capped by an intersecting gable roof covered with rolled asphalt. It is clad in a combination of corrugated metal siding, board and batten and wood planks.

North Elevation (facing Bonita Street)

The north elevation is L-shaped in configuration (Figure 95). The north elevation of its projecting wing is clad in corrugated metal. The elevation's recessed wing is clad in a combination of corrugated metal, board-and-batten and horizontal wood siding.

East Elevation

The east elevation is linear in configuration. The south end of the elevation is capped by a front gable roof, and is clad in board-and-batten siding (Figure 96). Its fenestration is comprised of two wood sash windows. The next segment of the elevation is clad in horizontal wood siding. Its fenestration consists of two small rectangular windows that are flanked on the north by a pair of sliding wood plank doors. The remainder of the façade is clad in corrugated metal siding with a pair of wood frame doors covered in corrugated metal at is north end.

South Elevation

The south elevation is linear in configuration (Figure 97). The east end of this elevation is clad in board-and-batten siding. The fenestration of this part of the elevation is comprised of a single wood sash window that is flanked on its east side by a set of double doors. The remainder of the elevation is covered in corrugated metal siding.

West Elevation

The west elevation is L-shaped in configuration (Figure 98). Its projecting wing consists of two sets of double doors clad in corrugated metal sheeting. The south end of the recessed wing is clad in horizontal wood siding. Its fenestration consists of two small rectangular windows that are flanked on the north by a pair of wood plank doors. The remainder of the façade is clad in corrugated metal siding with a pair of wood frame doors covered in corrugated metal at is north end.

LACO #1286: Building History and Post-Construction Alterations and Modifications

The variety of cladding and building materials found in Building #1286 suggests that it may represent at least three separate construction episodes. The board-and-batten section of the building, constructed in 1920, appears to be the earliest section of the building. The section of the building that is clad in horizontal wood siding would appear to be slightly later in date. The building attained its L-shaped configuration by 1925, according the Sanborn Fire Insurance map of that year. As depicted on the Sanborn map, the sections of the building that are now covered in corrugated metal were originally open and appear to have functioned as covered parking for vehicles or farm equipment. Sometime after 1929 the building's open bays were enclosed with corrugated metal siding. The building is in fair physical condition and retains most of its historic fabric. However, later modifications, including the enclosure of the open bays with corrugated metal, have impacted the integrity of the building.

LACO #1287 (Former Oil and Storage Building)

Building #1287 is located just south of Building #1286 (see Figure 2). The two-story, vernacular style, wood frame building is clad in horizontal wood siding and is set on a raised foundation. Its front gable roof is covered in composition shingles and its fenestration is comprised of wood sash windows.

North Elevation (primary façade)

The north elevation is linear in configuration (Figure 99). Wood rafters support the projecting eaves of the front gable roof. A concrete stoop with a metal pipe railing leads to a sliding wood plank door that is flanked on its west side by a rectangular wood sash window. The fenestration of the second floor is comprised of a single wood sash window that is set just below the roof's eave line. The window is flanked on its east side by a freight door that is closed by a pair of wood plank doors.

East Elevation

The east elevation is linear in configuration (Figure 100). Its first floor fenestration is comprised of three wood sash windows. The second floor fenestration is comprised of a similar arrangement of smaller wood sash windows.

South Elevation

The south elevation is linear in configuration. The projecting eaves of the front gable roof are supported by wood rafters (Figure 101). The fenestration of the first floor is comprised of a symmetrical arrangement of two wood sash windows. The fenestration of the second floor is comprised of a single wood sash window that is set just below the roof's eave line.

West Elevation

The west elevation is linear in configuration (Figure 102). Its first floor fenestration is comprised of three wood sash windows. The second floor fenestration is comprised of a similar arrangement of smaller wood sash windows.

LACO#1287: Building History and Post-Construction Alterations and Modifications

Building #1287 was constructed in 1909. The original function of the building is unclear, however, given its location in the midst of the County Farm's complex of barns, poultry yards, silos and stables, it must have been used for some agriculturally related function. By 1925 the building was being used for storage. Still later, it housed the Pest Control facility. For the last 20 or more years the building has been used for storage. The building has undergone a number of changes since its construction in 1909. These alterations include the addition of a concrete stoop and second floor freight door to the north elevation. The building's over-all physical condition is fair and it has retained most of its original fabric and architectural details.

LACO#2492 (Toilet Building)

Building #2492 is a small wood frame building that is located just west of Building #1287 (see Figure 102). The wood frame, stucco building is capped by a shallow front gable roof. It contains two toilet rooms that are accessed through doors on the east and west elevations. Small rectangular, wood frame windows are set into the north and south elevations.

LACO#2492: Building History and Post-Construction Alterations and Modifications

The Toilet Building was constructed sometime after 1930. Based on the style of the building it was probably built between circa 1930 and 1945. The building's over-all physical condition is fair and it has retained most of its original fabric and architectural details.

LACO#1991 (Property Warehouse)

The warehouse is located south of the former stable building (see Figure 2). It is a narrow, rectangular prefabricated metal building capped by shallow front gable roof (Figure 103). The north and south elevations are linear in configuration. Fenestration is comprised of a series of nine rectangular windows that have been covered by wood planks. Two rectangular windows flank a single panel door located on the east elevation. The west elevation mimics the arrangement of the east elevation.

LACO#1991: Building History and Post-Construction Alterations and Modifications

Building #1991 was probably erected in the late 1940s or early 1950s (several other prefabricated metal buildings of the same type are located in the quadrangle of the former Men's' Psychopathic Wards). It is possible that the building was originally sited somewhere else on South Campus and was moved to its current location in the mid-1950s, a time when the former complex of farm buildings were being demolished to make way for the new Laundry Building. The building's over-all physical condition is fair and it has retained most of its original fabric and architectural details.

LACO#3591 (Property Warehouse)

Building #3591 is a prefabricated metal building that is used as a storage facility. It is rectangular in configuration (see Figure 103). Capped by a front gable roof the building's primary entrance is a roll-up door located on the east elevation.

LACO#3591: Building History and Post-Construction Alterations and Modifications

Building #3591 was constructed sometime between 1965 and 1974. The prefabricated building is used as a storage facility. It appears to have undergone no significant alterations since its construction.

LACO#2637 (Steam Laundry)

Located near the intersection of Gardendale Street and Erickson Avenue, Building #2637 is a rectangular metal frame industrial style building (Figure 104). It is clad in corrugated metal and is capped by a monitor style roof. A series of ten vents lines the roof's ridgeline. It fenestration is comprised primarily of multi-light metal frame hopper style windows.

West Elevation

The west elevation faces toward Erickson Avenue (Figure 104). At the south end of the elevation a set of sliding doors, flanked by hopper style windows, provides access to the building's interior. A concrete loading dock, flanked by a hopper window, is located at the north end of the elevation. At the second floor level a series of hopper windows provides light to the interior.

North Elevation

The north elevation is essentially linear in configuration (see Figure 103). A series of doors and hopper windows run the length of the first floor elevation. A linear series of hopper windows runs the length of the upper story. A number of small metal clad additions have been made to the west end of the elevation.

East Elevation

The east elevation mimics the window arrangement of the west elevation (Figure 106).

South Elevation (facing toward Gardendale Street)

The south elevation is essentially linear in configuration. It largely mimics the appearance of the building's north elevation (Figure 107).

LACO#2637: Building History and Post-Construction Alterations and Modifications

The Laundry Building was constructed in 1951, to replace an existing laundry facility in Building #1302 (adjacent to the 1926 Power Plant). The new laundry was built in the location of what had been the Rancho's complex of farm buildings. After the end of World War II Rancho's agricultural activities began to be phased out. This left a complex of redundant buildings such as barns, corrals, poultry yards, chicken coops and a creamery that were no longer necessary to the facility's mission. While some structures were converted for alternative uses, others, such as silos, cow barns, were demolished. The Laundry Building was one of the last large-scale industrial buildings constructed on South Campus. In 1983 the Rancho contracted out its laundry service and the Laundry Building was shut down. The building has been unused since that time.

4.4 Southwest Quadrant

The southwest quadrant is delineated on its north side by Descanso Street, on its east side by Erickson Avenue, on its south side by Gardendale Street and the railroad tracks and on its west side by the Rancho's west boundary (see Figure 2). Juniper and Bonita Streets divide the area into four smaller quadrants. Patient services, such as the general wards, the Auditorium, dining rooms, and Social/Dining Hall were located

primarily in the area delineated by Juniper and Gardendale Streets. The remainder of the quadrant is taken up with support facilities, such as garages, machine shops and storage buildings. Formal landscaping is limited to the corridor along Erickson Avenue, the rest of the area is either paved or graveled.

LACO#1260 (Bathhouse)

Built in 1922, the Bathhouse building is a two-story, rectangular, masonry building (Figure 108). The building's flat roof is hidden from view by a solid brick parapet. At the base of the parapet a brick cornices projects from the top of the wall plate. All four of its elevations are embellished with blind arcades inset with rectangular wood sash windows. The entire exterior is sheathed in stucco.

East Elevation (primary façade)

The east elevation is divided into two arcades (see Figure 108). At one end of the elevation an exterior staircase leads to the second floor. A sealed door is located just north of the façade's central pier. The second floor is recessed behind a second floor loggia. Two doors set into the second floor provide access to the building's second floor.

North Elevation (facing toward Descanso Street)

The north elevation is linear in configuration. Its wall surface is divided into an arcade by eight flattened arches (see Figure 108). Sets of paired wood sash windows, on the first and second floors, fill blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. Doors, reached via a concrete ramp, are placed at the base of the second and fourth arcades.

West Elevation (facing Juniper Street)

The west elevation is the rear of the building (Figure 109). On the first floor the fenestration is comprised of two sets of pair sash windows flanked on their south side by a sealed window. The second floor fenestration is comprised of a series of what appear to be double casement windows (the windows have been covered with wood sheeting making precise identification difficult). Originally, the second floor was a screened porch.

South Elevation

The south elevation essentially mimics the design of the north elevation (Figure 110). Its wall surface is divided into an arcade by eight flattened arches. Sets of paired wood sash windows, on the first and second floors, fill blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. A staircase is set into a recessed entry at the west end of the elevation.

LACO#1260: Building History and Post-Construction Alterations and Modifications

Building #1260 is located across Descanso Street from the Power Plant. It was constructed in 1922 to serve as a bathhouse for the County Farm's patients. Its second floor housed patient wards. The plan and design scheme of the building replicates that of Buildings #1184, #1185, and #1185, which were built in 1914. Later in its history the bathhouse was used as the linen mending room. In the late 1950s the building was transformed into a storage facility. Over the years the building has undergone a number of alterations, including the replacement of doors and windows, others of which were sealed over. Sometime after 1930 the screened-in porch on the second floor was remodeled into an interior space. The physical condition of the building is poor. The alteration of original doors and windows and the enclosure of the original second floor porch on the west elevation have diminished the integrity of the building.

LACO#1261 (Auditorium)

Building #1261 is located across a narrow walkway from the Bathhouse Building. The flat-roofed, stucco clad, two-story masonry building represents a reductive example of the Art Deco Style. The building's auditorium contains an Art Deco style proscenium arch.

East Elevation (Primary Façade)

The east elevation is linear in configuration. At the center of the façade a pylon-shaped projection houses the front entrance (Figure 111). The set of three paired doors is flanked on either side by masonry piers. The pylon is flanked on either side by multi-light windows that are set into deep reveals. The second floor fenestration consists of a symmetrical arrangement of three narrow, rectangular windows placed above the entrance.

South Elevation

The south elevation is linear in configuration. Its fenestration is confined to a number of small rectangular windows set at the west end of the elevation (Figure 112).

West Elevation (rear elevation)

The west elevation is linear in configuration. A sealed doorway is located at the west end of the doorway (Figure 112). The doorway, which is not set at ground level, is missing its access ramp or stairway.

North Elevation

The north elevation is linear in configuration. Its fenestration is confined to a number of small rectangular windows set at the west end of the elevation (see Figure 112).

LACO#1261: Building History and Post-Construction Alterations and Modifications

The Auditorium was built in 1928 on the site of the 1888 Refectory Building, demolished shortly before the Auditorium was built. The Auditorium is the only Art Deco style building at Rancho Los Amigos. The building has undergone several alterations and modifications since its construction. Sometime in the past the building's brick exterior was covered in stucco. The original front doors have been replaced and some of the Art Deco style detailing of the interior has been removed or destroyed.

LACO #1262/1263 (Dining Rooms, Kitchen, Commissary and staff rooms)

Building #1262/1263 flanks the south side of the Auditorium (see Figure 2). It is a two-story, vernacular style brick building made up of a series of interlocking rectangular volumes. The first floor of the building contained staff and patient dining rooms, a kitchen, a reading room, kitchen and general stores. The second floor contained staff rooms. While the building was constructed in several phases, its different wings share several design motifs including arched windows, decorative stringcourses, flat roofs, and solid parapets.

East Elevation (facing Erickson Avenue)

The east elevation is comprised of a number of projections and recessions. At the north end of the elevation is a two-story tall projecting wing (Figure 113). Its fenestration is comprised a series of arched windows and two large bay doors on the first

floor. Brick cornices delineate division between the first and second floors. The second floor fenestration is comprised of a series of arched windows. A projecting brick cornice that is capped by a solid parapet delineates the base of the wall plate. This wing's first floor once housed staff and patient dining rooms, and a reading room. Its second floor housed staff rooms. A recessed one-story wing attached to the southwest corner of the dining room wing housed the main kitchen (Figure 114). Its fenestration is comprised of an asymmetrical arrangement of four square windows. At the south corner of the elevation metal stairs lead to the flat roof. Near the center of the roof a glass and metal skylight provided light to the kitchen. The kitchen wing of the building is flanked on its south side by a two-story block that contained additional dining rooms on the first floor and rooms for staff on the second floor (see Figure 114). The fenestration of both its first and second floors is comprised of a series of arched windows. At the elevation's center point an arched bridge links the building's second floor with the general wards located just east of Building #1262. The bridge shelter's the wing's main entrance.

South Elevation

The south elevation is essentially L-shaped in configuration. The recessed element of the elevation is U-shaped in configuration and is two-stories in height. Its fenestration is comprised of a symmetrical arrangement of rectangular windows (Figure 115). The projecting wing of the elevation is linear in configuration. Its fenestration is comprised of series of arched windows on the first and second floors.

West Elevation (facing Juniper Street)

The west elevation is comprised of a complex series of projections and recessions that form a centrally placed u-shaped courtyard flanked by projecting wings (Figures 116-118). The fenestration is primarily comprised of sash windows set into arched openings. A metal canopy runs the length of the recessed wing at the south end of the elevation. This wing was originally a freestanding building (Building #1263) that was later joined to Building #1262 by a one-story hyphen (Figure 119). At the north end of

the elevation a metal canopy shelters the building's primary main loading bay (Figure 120).

North Elevation

The north elevation is comprised of a number of projections and recessions. Its fenestration is comprised of arched door and window openings (Figure 121).

LACO#1262/1263: Building History and Post-Construction Alterations and Modifications

Buildings #1262/1263 were built over a 11- year period, between 1910 and 1921. Building #1263 was built in 1910 to serve as the commissary for the County Farm. Three years later, in 1913, a two-story building (Building #1262) was built to house the kitchen and main dining rooms. Between circa 1914 and 1920, a one-story kitchen wing was added to the southwest corner of the building and later a two-story wing to the south elevation of the kitchen wing. Finally, in 1921, a one-story wing was built to link the kitchen wing to the commissary. The second floor of the building housed staff residential rooms. Several modifications have been made to the building since its last large-scale expansion in 1921. Since that time the building's exterior has been painted and modifications have been made to its interior. Within the last ten years arson and vandalism have damaged the building's interior.

LACO #1184, #1185, #1186, #1187, and #1188 (General Ward Buildings)

The five general ward buildings share a similar design scheme. Each building is designed as a two-story rectangular masonry building, whose facade faces toward Erickson Avenue (Figure 122 and see Figure 2). The building's flat roof is hidden from view by a solid brick parapet. At the base of the parapet a brick cornices projects from the top of the wall plate (Figure 123). All four elevations are embellished with blind arcades inset with rectangular wood sash windows. The entire exterior is sheathed in

stucco. Originally, the east and west elevations had screened porches, which were later glazed (Figure 124).

East Elevation (primary façade)

The east elevation of each ward is divided into two arcades (see Figure 123). At the east end of the elevation an exterior staircase leads to the second floor. A sealed door is located just north of the façade's central pier. The second floor is recessed behind a second floor loggia. Two doors set into the second floor provide access to the building's second floor.

North Elevation

The north elevation of each ward is linear in configuration (Figure 125). Its wall surface is divided into an arcade by eight flattened arches. Sets of paired wood sash windows, on the first and second floors, fill the blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. Doors reached via a concrete ramp are placed at the base of the second and fourth arcades.

West Elevation

The west elevation of each ward is the rear of the building (see Figure 124). On the first floor the fenestration is comprised of two sets of pair sash windows flanked on their south side by a sealed window. The second floor fenestration is comprised of a series of what appear to be double casement windows (the windows have been covered with wood sheeting making precise identification difficult). Originally the second floor was a screened porch. The rear elevation of Buildings #1184, #1185 and #1186 are joined by one-story hyphens (Figure 126). A one story arched bridge joins Building #1184 and #1185 to Building #1162 (Figure 127).

South Elevation

The south elevation of each ward references the design of the north elevation. Its wall surface is divided into an arcade by ten flattened arches (see Figure 124). Sets of paired wood sash windows, on the first and second floors, fill blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. A staircase is set into a recessed entry at the west end of the elevation.

LACO #1184, #1185, #1186 and #1187 and #1188: Building History and Post-Construction Alterations and Modifications

Buildings #1184, #1185 and #1186 were constructed in 1914 to serve as general wards for the County Farm. In 1926, two more wards, Buildings #1187 and #1188 were added to the row of two-story wards along Erickson Avenue. The buildings have undergone a number of significant alterations, including the enclosure of the open porches on the east and west elevations, and the replacement of a number of the building's original doors and windows. Over the last fifteen years the buildings have been severely damaged by vandalism and arson. As a result, the condition of the five ward buildings is poor.

LACO#1256 (Toilet Building)

Located southeast of the row of five general wards, Building #1256 is a one-story concrete masonry building capped by a flat roof (Figure 128). The east elevation faces toward Erickson Avenue. Doorways flank two rectangular windows set at the center of the façade. The north and west elevations each have two small windows. The west elevation is a blank wall.

LACO#1256: Building History and Post-Construction Alterations and Modifications

The Toilet Building was constructed in 1926 the same year that the nearby two-story wards were built. It has undergone few modifications since its construction. The physical condition of the buildings is fair.

LACO#1264 (Bonita Hall)

Bonita Hall is located at the intersection of Juniper and Bonita Streets. It is one story building capped by a composition shingle, monitor style roof. An arcade, which has largely been filled in runs the length of the south elevation.

South Elevation

The south elevation is linear in configuration. An arcade, capped by a shed roof and supported by square masonry piers, runs the length of the elevation (Figure 129). Three of the arcades six bays have been infilled with masonry. Metal frame slider windows are set into the infilled walls. The main entrance is set into the elevation's third bay. At the west end of the elevation a shed roofed wing projects from the side of the building.

West Elevation

The west elevation is comprised of a one-story shed-roofed wing (Figure 130). Its fenestration is comprised of two rectangular windows set at either end of the elevation. At the north end of the elevation a pre-fabricated metal structure has been added to the building.

North Elevation

The north elevation is linear in configuration (see Figure 130). Rectangular windows flank a doorway near the east end of the elevation. A series of seven windows, placed just above the top of the shed roof, provide light to the building's interior.

East Elevation

The east elevation consists of a central element capped by front gable roof that is flanked by lower, shed roofed aisles. Its fenestration consists of a large, arched multi-light window (Figure 131).

LACO#1264: Building History and Post-Construction Alterations and Modifications

Bonita Hall was built in 1932 to serve the recreational and social functions for the residents of Rancho Los Amigos. Designed in the Spanish Colonial Revival style the building originally had a tile roof, and arcaded façade. The building was extensively remodeled in 1974 resulting in the removal of its tile roof, the replacement or alterations of its windows and the infilling of the arcade. These alterations have so altered the building that it no longer retains its design integrity. The physical condition of the building is good.

LACO#3390 (Prosthetic Shop)

The Prosthetic Shop is located just north of Bonita Hall (see Figure 2). It is a one-story building, u-shaped building that is capped by a combination of shed and gable roofs. The fenestration is primarily of casement type.

West Elevation

The west elevation is linear in configuration (Figure 132). Its fenestration consists of a ribbon window divided into of four segments.

North Elevation

The north elevation is U-shaped in configuration. The roofline of this elevation is made up of three shed roof of varying pitches (see Figure 132).

East Elevation

The east elevation is essentially U-shaped in configuration. Its two diminutive wings are capped by front gable roofs (Figure 133).

South Elevation

The south elevation is linear in configuration. Its fenestration is primarily composed of wood casement windows (see Figure 134). A single leaf doorway is place near the east end of the elevation.

LACO#3390: Building History and Post-Construction Alterations and Modifications

Building #3390 was built in 1953 to house the Prosthetic Shop. It is one of the few buildings on the Rancho's South Campus to incorporate references to Modernist architecture. The building is in good condition and retains good integrity of design.

LACO#1266 (Occupational Therapy Building)

The Occupational Therapy Building is located across Juniper Street from Bonita Hall (see Figure 2). The one-story wood framed, stucco-clad building is capped by a complex hipped roof (Figure 134). Exposed rafter tails supports the roof's overhanging eaves. Fenestration is primarily comprised of multi-light wood casement windows.

East Elevation (facing Juniper Street)

The east elevation is the building's façade. At the center of the façade a hipped dormer style roof caps a multi-light wood frame window (see Figure 134). The window is flanked on either side by circular plaster medallions that depict a man planning a log (Figure 135). Decorative quoins decorated either end of the façade. At the south end of the elevation a shed-roofed porch is attached to the building.

North Elevation (facing Bonita Street)

The north elevation, with the exception of a small projecting wing at the south end of the elevation, is linear in configuration (Figure 136). Its fenestration is comprised of a series of rectangular wood frame windows. Most of the windows at the west end of the building have been removed.

West Elevation

The west elevation is linear in configuration. Its fenestration, which once consisted of a series of several rectangular windows, has been removed (see Figure 136). Remnants of a breezeway that once linked the Occupational Therapy Building to Building #1267 exist at the south end of the elevation.

South Elevation

A shed roof porch shelters the east end of the elevation. The porch's posts are supported by masonry piers (Figure 137). The porch looks out on an elaborate series of garden beds that are surrounded by a masonry wall. A series of double French doors comprises the fenestration of this part of the elevation. The porch is flanked on its west side by a projection. This part of the building has been, to a large extent, stripped down to the studs. Most of the original windows and the exterior cladding has been removed (Figure 138).

LACO#1266: Building History and Post-Construction Alterations and Modifications

Originally called Descanso Hall, Building #1266 was built in 1928 to house the Occupational Therapy Department. In Occupational Therapy the patients could learn a range of crafts, which included basket weaving, printing and rug making. In the post-World War II period the Occupational Therapy Department was gradually phased out. The building was later used as a social center. In the 1980s the building was renovated and a landscaped courtyard was added to the south side of the building. The renovation also removed the façade's front entrance and added a porch and series of French doors to the south elevation. Sometime in the last 15 years the rear of the building was gutted. This resulted in the removal of wall cladding and many of the building's windows. Because of these alterations the building has a low level of integrity and is in poor physical condition.

LACO#1267 (Occupational Therapy Building Addition)

Building #1267 is a vernacular style building that was once attached to the rear of the main Occupational Therapy Building Addition by a one-story hyphen (see Figure 2). Today it is a freestanding building. It is a one-story, wood frame building capped by a hipped roof covered in composition shingles (Figure 139). Each of the four elevations

has an asymmetrical arrangement of multi-light sash windows and flush panel doors. All doors are accessed via concrete ramps. A shed roof porch projects from the west elevation.

LACO #1267: Building History and Post-Construction Alterations and Modifications

Building #1267 was built in 1930 to house the print shop, paint shop and shoe making departments. These departments were largely staffed by patients, and were part of the Rancho's occupational therapy program. After the occupational therapy programs were phased out in the mid-to-late 1950s the building was used for a variety of purposes. It last housed the transportation department. It is currently vacant. The building, which is in fair condition, has retained good integrity of design.

LACO #1335 (Brooder House)

Located at the southern boundary of the Rancho, the building, including its roof and walls is entirely built of concrete (Figure 140). The building is capped by a peaked roof. A series of small openings pierce the building's north wall.

LACO #1335: Building History and Post-Construction Alterations and Modifications

The Brooder House was built in 1929. It is the only surviving element of the Rancho's once extensive poultry yards, which encompassed four rows of poultry coops, a feed barn and several ancillary buildings. The poultry coops were demolished sometime after the mid-1930s. The Brooder House, feed barn and shed were all damaged or destroyed by arson within the last eight years. Only the Brooder House survives. Severely damaged by fire it retains a poor level of architectural integrity.

LACO #1379/4121 (Garage)

Building #1379/4121 is located just south of Building #1267 (see Figure 2). The rectangular, wood frame building is clad in corrugated metal siding (Figure 141). Its modified shed roof is also covered in corrugated metal. The east, west and south elevations are clad in corrugated metal sheeting. Two hopper windows are placed at the north end of the south elevation. Another window of the same type is placed at the center of the west elevation. The north elevation is divided into a series of open bays by metal poles (Figure 142). The roof of the central bay projects above the roof's ridgeline.

LACO #1379/4121: Building History and Post-Construction Alterations and Modifications

Building #1379/4121 was a garage for the Rancho's fleet of trucks and cars. Its precise construction date could not be ascertained. It was built on the site of the poultry yards, which were in place as late as 1930-1932. This suggests that the garage was not built until sometime after 1932. Based on its design, the building would appear to date somewhere between 1933 and the mid-1940s. The building has been unused since the early 1990s. It has undergone few alterations and has retained good integrity of design.

LACO# 4118 (Garage)

Building #4118 is located just northwest of Building #1379/4121. It mimics on a smaller scale the design features and building materials of Building #1379/4121. A modified shed roof caps the building. Both the walls and roof are covered in corrugated metal sheeting (Figure 143). The south elevation is divided into a series of five open bays by pipe style posts.

LACO#4118: Building History and Post-Construction Alterations and Modifications

This structure, like Building #1379/4121, was a garage for the Rancho's fleet of trucks and cars. Its precise construction date could not be ascertained. It is not depicted on the 1929-1931 Sanborn Fire Insurance Map or on site plan of the Rancho prepared in circa 1932. This suggests that the garage was not built until sometime after 1932. Based on its design, the building would appear to date somewhere between 1933 and the mid-1940s. The building has been unused since the early 1990s. It has undergone few alterations and has retained good integrity of design.

LACO#1464 (shed)

Building #1464 is located just northwest of Building #4118. It is a small, rectangular wood frame building capped by a shed roof covered in composition shingles (Figure 144). It walls are clad in vertical planks. Doorways, flanked by a window are placed at either end of the east elevation. The other elevation's have no doors or windows.

LACO#1464: Building History and Post-Construction Alterations and Modifications

The shed was built in 1945. It appears to have been constructed of salvaged materials, perhaps from one of the farm buildings demolished in the mid-1940s. The building has been unused since at least the early 1990s. It has undergone few alterations and has retained good integrity of design.

LACO#3348 (Decontamination/Garbage Can Room)

Building #3348 is located on the southeast corner of the intersection of Bonita and Laurel Streets. The wood frame stucco-clad building is capped by a composition shingle,

front gable roof (Figure 145). Raised on piers the building has a loading dock running the length of its west elevation. The upper two-thirds of the exterior walls is mostly taken up with screened openings. Double flush panel doors are located at the center of the south elevation.

LACO#3348: Building History and Post-Construction Alterations and Modifications

According to available documentation the building was constructed in 1951 to serve as storage and collection point for the facilities garbage cans. Like several other post World War II buildings it may have been built of materials salvaged from demolished buildings. It appears to have undergone few if any alterations since its construction. It is fair condition and has good integrity of design.

Service Area

The following twelve service buildings are located in the block bounded by Descanso, Juniper, Bonita and Laurel Streets. All of these building were associated with the maintenance of Rancho Los Amigos.

LACO#1275 (Workshop)

The Workshop Building is a long narrow building that is approximately 160 feet in length. The brick building is capped brick parapet that hides the flat roof from view. A decorative cornice delineates the base of the parapet from the wall plate.

East Elevation (façade, facing Juniper Street)

The east elevation is linear in configuration. Its façade is comprised of a series of rectangular windows that alternate with doors that open into the individual shop spaces (Figure 146).

South Elevation (facing Bonita Street)

This elevation is the short side of the building. Its fenestration is comprised of two multi-light wood frame windows. At the west end of the elevation a wood frame addition capped by a front gable roof links Building #1276 with the nearby garage building (Building #1277) (Figure 147). The additions central sliding wood plank and multi-light doors are flanked by sets of multi-light wood frame windows.

West Elevation

The west elevation forms the east and west sides of u-shaped courtyard (the west side of the courtyard is formed by the east elevation of Building #1277). This elevation is comprised of a series of rectangular windows that alternate with doors that open into the individual shop spaces. The south end of the elevation is comprised of the gable end of the wood frame wing that links Building #1275 with Building #1277). The fenestration of this wing consists of a pair of sliding wood plank and multi-light doors that are flanked by sets of multi-light wood frame windows.

North Elevation

The north elevation is linear in configuration. The elevation's entrance is sheltered by a projecting shed roof.

LACO#1275: Building History and Post-Construction Alterations and Modifications

According to available documentation the south end of the building was constructed in 1917 to house the Maintenance Department workshops. Later, in the mid-1920s, an addition was made to the north end of the building. By circa 1930 the building housed the carpentry and paints shops at its south end and a series of seven storerooms at the north end of the building. Sometime after circa 1945 a wood frame wing linking the

workshops to Building #1277 was added. Like several other post-worlds War II structures it may have been built of materials salvaged from demolished buildings. It appears to have undergone few if any alterations since its construction. It is fair condition and has good integrity of design.

LACO#1277 (Garage)

Building #1277 is located just west of Building #1275. It is joined to Building #1275 by wood frame wing capped by a gable roof. The wood frame building's shed roof and walls are clad in corrugated metal (Figure 148). The building does not have windows, however, a number of doors, which are also clad in corrugated metal, provide access to the interior.

LACO#1277: Building History and Post-Construction Alterations and Modifications

According to available documentation the building was constructed in 1925 as a lumber store. Originally its east elevation comprised a number of open bays. In the post World War II period, these bays were altered when a wing was built that linked Building #1277 to the nearby Maintenance Department Building. For at least the last ten years the building has been empty. The Lumber Storage Building is in fair condition and has good integrity of design.

LACO#1278 (Garage)

Building #1278 is a one-story wood frame building clad in corrugated metal and capped by a complex front gable roof (Figure 149). A series of double doors clad in corrugated metal line its east and west elevations. These doors provided access to a number of bays that were used to store automobiles and trucks.

LACO#1278: Building History and Post-Construction Alterations and Modifications

According to available documentation the building was constructed in 1924 as an automobile garage. Since that time it has also been used as a storage building. It appears to have undergone few alterations since its construction. It is fair condition and has good integrity of design.

LACO#1280 (Garage)

Building #1280 is one-story wood frame building capped by a shed roof that is located west of Buildings #1277 and #1278. Both its walls and roof are clad in corrugated metal siding (Figure 150). A series of double doors clad in corrugated metal line its east and west elevations. These doors provided access to a number of bays that were used to store automobiles and trucks.

LACO#1280: Building History and Post-Construction Alterations and Modifications

According to available documentation the building was constructed in 1928 as an automobile garage. Since that time it has also been used as a storage building. It appears to have undergone few alterations since its construction. It is fair condition and has good integrity of design.

LACO#1268 (Storage Building)

Building #1268 is one-story wood frame building capped by a front gable roof that is located west of Building 1280 (Figure 151). Both its walls and roof are clad in corrugated metal siding. A series of double doors clad in corrugated metal line its east elevation. These doors provided access to the buildings interior.

LACO#1268: Building History and Post-Construction Alterations and Modifications

According to available documentation the building was constructed sometime before 1931, as it is depicted on the Sanborn Fire Insurance Map of that year. Since its construction it has been used as a storage building. It appears to have undergone few alterations since its construction. It is fair condition and has good integrity of design.

LACO #1270 (Garage Building)

Building #1270 is a rectangular wood frame garage capped by a shed roof that is located near the intersection of Bonita and Laurel Streets. The sides and roof of the building are clad in corrugated metal siding. The north elevation is divided into two open bays. At the east end of the elevation a window provides light to the interior (Figure 152).

LACO#1270: Building History and Post-Construction Alterations and Modifications

Building #1270 was constructed in 1932. It is depicted on site map published in 1933. In later years it was used as storage building. It appears to have undergone few alterations since its construction. It is fair condition and has good integrity of design.

LACO#954 (Lumber Shed)

Building #954 is a vernacular style building located north of Building #1270. Its wood frame is capped by a front gable roof. The side walls are clad in vertical board sidings. A porch capped with a front gable roof, projects from the south elevation (Figure 153). The east and west elevations are lined with a series of sliding wood doors that access individual lumber bins.

LACO# 954: Building History and Post-Construction Alterations and Modifications

Building #954 was constructed in 1942. Like several other structures built during the war or immediately afterward it appears to have been built of materials salvaged from demolished buildings. Within the last 20 years it has been damaged by vandalism. Most of the sliding wood doors on the east and west elevations have been removed. It is in poor condition, but has fair integrity of design.

LACO#3368 (Shed)

Building #3368 is a small shed roofed building that is located west of Building #954. Set on a raised foundation, the building is entirely constructed of concrete (Figure 154). Its façade faces east. It consists of two doors that open onto a solid concrete stoop that is lined with a pipe style railing. The building's only fenestration is comprised of two wood frame windows on the west elevation.

LACO#3368: Building History and Post-Construction Alterations and Modifications

Building #3368 was constructed sometime in the early to late 1950s. Its fireproof construction suggests that it may have been used to store flammable materials. A canopied structure (Building #1272) once located adjacent to the building's north elevation was demolished sometime after 1974. Within the last ten years Building #3368 has been damaged by vandalism. Its condition is fair and it has maintained a fair integrity of design.

LACO#1207 (Work Preparation Center)

Building #1207 faces toward Laurel Street. It is a barn style building capped by a monitor style roof (Figure 155). The rectangular building's roof and walls are clad in

configuration and construction details the building resembles a monitor style barn depicted on the 1922 aerial photograph of the Rancho. At that time it was located behind Building #1259. In the mid-1920s the building was converted into a general ward building (Ward 104). While this was supposed to be a temporary measure, it appears to have remained a ward until World War II. During the war the barn housed a war effort scheme that was staffed by hospital inmates. After the war the building became the Work Preparation Center Number 2. The building is in fair condition, and has maintained fair integrity of design.

LACO#1259 (Wheelchair Repair Building)

The Wheelchair Repair Building is located directly behind Building #1207. The one-story, wood frame, vernacular style building is capped by an intersecting gable roof (Figure 157). Its fenestration is a combination of metal frame and wood sash windows. The south elevation represents a more recent addition to the building.

LACO#1259 Building History and Post-Construction Alterations and Modifications

Building #1259 was built in 1931. Originally it was a rectangular one-story building flanked by an open loggia on its east side. It was built to house a laundry. In later years it was altered and expanded. Sometime in the 1930s or 1940s an addition was built off of the south elevation that enclosed the loggia. The building eventually housed the wheelchair repair and sign shops, as well as a small locker room. The building is in poor condition. Because it has undergone many alterations over the last 70 years its architectural integrity is poor.

LACO#1279 (garage)

Located adjacent to the north elevation of Building #1280 is a small wood frame garage whose walls and roof are clad in corrugated metal. The building's bay doors are located on the south elevation (Figure 158).

LACO#1279: Building History and Post-Construction Alterations and Modifications

Building #1279 was constructed sometime between 1925 and 1931 to serve as a garage. The building is in fair condition, and it has maintained good integrity of design.

LACO#1276 (Lock Shop)

Building #1276 is located just north of Building #1275. It is a one-story brick building with a flat roof (Figure 159). With its brick parapet and cornice the building is similar to other vernacular style brick buildings erected at Rancho Los Amigos between 1910 and 1925. The façade of the building faces toward Juniper Street. The façade's central doorway is flanked on either side by metal frame windows. A rectangular addition was added to the rear of the building sometime in the-mid to-late 1920s (Figure 160). This addition lacks the ornamental cornice found on the building's original wing.

LACO#1276: Building History and Post-Construction Alterations and Modifications

Building #1276 was built in 1913. Its original use is unknown. In 1925 it was converted into a morgue. By 1933 it had been enlarged and was serving as the gas and oil building for the Rancho's fire department. It later served as a lock shop. The building is in fair condition. However, alterations to the building such the replacement of original doors and windows, the painting of the exterior and the construction of an addition off of the building's west elevation have diminished the buildings architectural integrity. Therefore, the building only retains a fair level of architectural integrity.

LACO#1290 (Shelter)

Building #1290 is located near the intersection of Descanso and Laurel Streets. It is a vernacular style wood frame shelter capped by shed roof. The roof is supported by wood posts with triangular braces. The west end of the building is enclosed.

LACO#1290: Building History and Post-Construction Alterations and Modifications

Building #1290 was built sometime between 1920 and 1930 (it is depicted on the 1931 Sanborn Fire Insurance Map). It may have been substantially rebuilt in 1952. The building is in fair condition, and it has maintained fair integrity of architectural integrity.

5.0 ASSESSMENT OF INTEGRITY AND POTENTIAL ELIGIBILITY OF THE PROPERTY FOR NOMINATION TO THE NATIONAL REGISTER OF HISTORIC PLACES AND THE STATE REGISTER OF HISTORICAL RESOURCES

5.1 Previous Historical Designations

In 1994 the Northridge earthquake damaged a number of structures at Rancho Los Amigos. In 1995, Historic Resources Group surveyed the buildings on the South Campus of Rancho Los Amigos for the purposes of Section 106 Review for the Federal Emergency Management Agency (FEMA). The study surveyed 102 buildings on the South Campus. As a result of their survey Historic Resources Group concluded that part of the South Campus was eligible for designation to the National Register of Historic Places as a historic district. A total of 80 buildings were determined to contribute to the historic character of the property, 23 did not contribute, two were not surveyed and one was demolished before it could be assessed (McAvoy 1995: 2) (please see Addendum A for a list of buildings surveyed by Historic Resources Group). An earlier assessment concluded that while five buildings on South Campus had local significance, neither the

campus as a whole, nor any of its individual buildings or features was eligible for nomination to the National Register of Historic Resources.

None of the buildings on the South Campus of Rancho Los Amigos are included in a local register of historic resources (Rancho Los Amigos lies within the corporate boundaries of the City of Downey, but is outside of the jurisdiction of that city). Neither Rancho Los Amigos, nor its individual buildings, are listed on the California Register of Historical Resources. The proposed National Register Historic District was not formally presented for nomination to the National Register of Historic Places.

5.2 Potential Eligibility of the South Campus or its Individual Structures and Features for Designation as State Landmark or Site of Historical Interest.

In 1995 Historic Resources Group carried out a survey of the South Campus of Rancho Los Amigos. The study determined that part of south campus was eligible for nomination to the National Register of Historic Places as a historic district. Of the 102 buildings, structures, or features that were surveyed 80 were determined to be eligible for listing as contributing elements to the district (McAvoy 1995: 1). The district was found to be eligible for designation as a district because Historic Resources Group found it met Criterion *a* of the National Register of Historic Places, preserved a sense of time and place and contained examples of property types associated with its history (McAvoy 1995: 3). The following section of the study includes a re-evaluation of South Campus using the criteria established by the National Register of Historic Places and the California Register of Historical Resources.

5.3 Application of the National Register of Historic Place Criteria for Evaluation

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, materials, workmanship, feeling and association, and:

(a) That are associated with events that have made a significant contribution to the broad patterns of our history; or
(b) That are associated with the lives of persons significant in our past; or
(c) That embody the distinctive characteristics of a type, period or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
(d) That have yielded, or may be likely to yield, information important in prehistory or history.

5.3.1 Application of the National Register of Historic Places Criteria to the South Campus (Potential Historic District)

The South Campus of Rancho Los Amigos would potentially meet Criterion *a* if it retained sufficient integrity to convey its period of significance.

(a) That are associated with events that have made a significant contribution to the broad patterns of our history; or

If the South Campus of Rancho Los Amigos retained sufficient integrity it would be potentially eligible for nomination to the National Register of Historic Places under *Criterion a.* Its major historical theme is public health care in Los Angeles County and its historical period of significance, between 1888 and 1950. Founded in 1887 as the site of the Los Angeles County Poor Farm, the facility gradually transitioned from a facility caring for the indigent, to subsequently include the chronically, physically and mentally ill. Still later, after World War II, it became a major center for the treatment of polio. After the development of a polio vaccine, Rancho Los Amigos established a reputation as one of the preeminent rehabilitation facilities in the United States. The period of significance for the South Campus of Rancho Los Amigos encompasses the period between 1888 and 1950. During this period the South Campus was the focus of patient care, support services, staff housing, and farm operations. Beginning in the late 1940s

and early 1950s more and more of Rancho Los Amigos' hospital and research activities was concentrated in a series of new buildings located on its North Campus. In the succeeding years the Rancho's South Campus receded in importance. By the late 1950s/early 1960s it had been largely relegated to the role of support facility, those buildings which had not been closed or demolished, used primarily as offices and record storage.

History of the South Campus of Rancho Los Amigos

The genesis of poor farms like Rancho Los Amigos began in the late nineteenth century when such institutions, integral components of Victorian era public charity, were founded on the philosophical belief the destitute should contribute to their upkeep. While the draconian elements that typified earlier poor farms had been largely eliminated, inmates of the Los Angeles County Poor Farm were expected, when able, to work at the farm or dairy, assisting with the maintenance of the facility and the day-to-day operation of the farm. By the beginning of World War I, the County Poor Farm encompassed extensive dairy herds, poultry yards, and croplands. The physical plant of South Campus saw its greatest expansion between 1913 and 1931 (primarily during the tenure of the facility's most notable superintendent, William R. Harriman, who was superintendent from 1915-1952). This growth was in large part driven by the increasing emphasis placed on the care of invalids and the mentally ill after World War I. Beginning with less than two hundred inmates when it first opened, by 1925 there were over 1,100 inmates residing at the County Poor Farm, many of them working in the Rancho's fields and dairies. The increased patient population necessitated a larger staff, which in turn required the construction of a significant number of staff units, including houses, duplexes, and multi-story dormitories, along with attendant recreational and dining facilities. The majority of the buildings constructed during this period were vernacular in style. Avoiding architectural embellishments they were designed with an eye toward utility and budget, rather than to architectural aesthetics. The construction, in 1931, of the Harriman Building, located across Imperial Highway on the North Campus,

portended the time in the postwar period when the facility's epicenter would move away from its original setting on the South Campus.

With the onset of the Great Depression, budget constraints forced the County of Los Angeles to curtail the further expansion of the Rancho's physical plant, despite the fact that the inmate population continued to increase. Because of this Rancho Los Amigos had to convert several of its farm buildings into patient wards. During World War II a number of Rancho Los Amigos' patients took jobs in defense plants, an industry that boomed in Los Angeles County during and after the war. Seeing a need to readapt to its shrinking inmate population Rancho Los Amigos decided to focus much of its energy on establishing a facility for the care of polio patients. During this period a number of advances were made in the area of physical therapy. Rancho Los Amigos', Elberta Arnold, the head of the Physiotherapy Department employed these latest advances to treat polio victims. This emphasis on the rehabilitation of patients was to increase in importance in the postwar years. Having had to defer the expansion of its infrastructure during the Depression and the war years that followed it was obvious by the postwar years that the facility's antiquated hospital and infirmary ward buildings on the South Campus were sadly outdated and ill equipped to treat the large numbers of polio patients. With increased funding in the late 1940s a new range of buildings devoted to patient care was built on the undeveloped land of the Rancho's North Campus. These new facilities reduced the relevance of the South Campus as center for patient care.

By the mid-to-late-1950s Rancho Los Amigos was used more and more for the care of polio patients, while the long-term care of the elderly infirm and the mentally ill was gradually phased out. At the same time the South Campus' farming component, which had been in operation since 1888, was finally terminated. With the closure of the last of its farm operations in 1963 and the transfer of patients and medical services to the North Campus or other County of Los Angeles heath care facilities, the South Campus was relegated primarily to the role of being a repository for records and storage.

By circa 1950 the South Campus of Rancho Los Amigos no longer retained the operative component that defined its significance as a caregiver for the indigent and chronically ill. The majority of its buildings no longer functioned as originally intended, the farm component, which was one of the most important and integral aspect of Rancho Los Amigos' early development, was nearly gone. The extensive patient and staff housing had been demolished, closed or used for passive purposes, such as records storage. As a result, the South Campus of Rancho Los Amigos does not retain sufficient integrity to convey those qualities and associations that would make it an historic district. Namely, it cannot represent two vital aspects of its history. First, all but three or four of its farm buildings and facilities have been demolished and the immediate environs of the property profoundly transformed from rural farmland to a dense urban environment. Secondly, all but two of the some 60 staff housing units that once existed on the South Campus has been demolished (see Table 2). The removal of these vitally important components necessary for interpreting the significance of the South Campus' contribution to the history of Rancho Los Amigos make the remaining structures and features on the South Campus ineligible for designation as an historic district under Criterion *a.*

(b) That are associated with the lives of persons significant in our past;

While several individuals including William Harriman, made notable contributions to the development of Rancho Los Amigos, they do not rise to the level of significance that would make the property eligible for nomination to the National Register of Historic Places on the basis of its association with a particular individual. Therefore, the South Campus of Rancho Los Amigos is not eligible for designation under this criterion.

(c) That embody the distinctive characteristics of a type, period or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction;

The majority of buildings and structures on the South Campus of Rancho Los Amigos date from 1913 to 1931. These buildings, with the exception of a few structures designed in either the Craftsman or Spanish Colonial Revival styles, are vernacular in style, and employ the stock building materials and construction technology of their time. The buildings, despite their mostly vernacular schemes, could potentially meet Criterion *c* if the South Campus retained sufficient integrity to be designated as a historic district. However, as noted below in Section 5.4.1 of this report, the South Campus of Rancho Los Amigos does not retain sufficient integrity to convey those qualities and associations that make it an historic district. Namely, it cannot represent a critical aspect of its history, when as a County Poor Farm it cared for the indigent, the elderly and the chronically ill. Almost all of its farm buildings and associated facilities have been demolished and the immediate environs of the property profoundly transformed from rural farmland to a dense urban environment. In addition, much of the physical plant, which included employee and patient housing, as well as support facilities, has been demolished. The degradation of these important components necessary for interpreting the history of Rancho Los Amigos' South Campus make it ineligible for designation under Criterion *c*.

(d) That have yielded, or may be likely to yield, information important in prehistory or history.

The property, which has been well documented, does not have the potential for meeting Criterion *d*.

5.4 Assessment of Integrity (For the Potential Historic District)

The period of significance of the South Campus of Rancho Los Amigos has been established as encompassing the period between 1888 and 1950. In order to properly interpret the period of significance the following four components of the facility's history, as manifested in the physical plant of Rancho Los Amigos, must retain their integrity. These four components are as follows: 1) Patient care and services; 2) Farm Operations; 3) Maintenance of the plant's physical plant (facilities management); and 4)

Staff facilities. Integrity establishes the authenticity of the resource's physical identity, by evidence of lack of deterioration, and significant survival of the characteristics that existed during its period of importance. Properties nominated to the National Register of Historic Places or the California Register of Historical Resources must possess integrity in the following seven categories:

1) Integrity of Location
2) Integrity of Design
3) Integrity of Setting
4) Integrity of Materials
5) Integrity of Workmanship
6) Integrity of Feeling
7) Integrity of Association

1) Integrity of Location

Integrity of location means that the resource remains at its original location.

The South Campus of Rancho Los Amigos has operated from its Downey site since 1888. It, therefore, has retained its overall integrity of location.

2) Integrity of Design

Integrity of design means that the resource accurately reflects its original plan.

The South Campus' integrity of design has been diminished by postwar alterations that have resulted in the demolition of many buildings and features that were present during its period of significance (1888-1950). Of the 135 buildings and structures constructed between 1888 and 1950, only 88 are still extant today. The loss of 43 buildings and structures has been compounded by the loss of original landscaping and the insertion of several large "box style" buildings on the grounds of the Rancho's South

Campus. In addition, the reconfiguration of the street grid at the northwest corner of South Campus has diminished the original configuration of streets that once characterized the South Campus during its period of significance (1888-1950). Over the years Rancho Los Amigos' has modified its mission, from a poor farm, to a hospital, to a rehabilitative center. The loss of almost all of its agricultural component, including barns, silos, dairies, coops, pens, fencing and agricultural fields, has severely diminished the property's ability to interpret the 62 year period (1888-1950) during which the farm played a central role in the operation of Rancho Los Amigos (see Table 1). The County Farm, with its patient wards, infirmaries, farmland, dairy, kitchens, dining halls, and staff housing, was a self-contained community. The ability of the property to interpret this aspect of its history has been compromised by the loss of many of the buildings on South Campus related to its period of significance (1888-1950). Therefore, the property's integrity of design is rated as poor.

3) Integrity of Setting

Integrity of setting means those buildings, structures or features associated with a later development period have not intruded upon the surrounding area to the extent that the original context is lost.

When the County Poor Farm was first established in 1887, it was surrounded by vast tracks of undeveloped land. Much of this land was devoted to farming and ranching. The nearest community was Downey, a small farming town located approximately a mile to the east of the County Poor Farm. Remarkably, the surrounding area remained essentially rural until circa 1945 when a rapidly expanding population, coupled with the development of the freeway system, fueled the suburbanization and subsequently, urbanization, of many of the communities in the Los Angeles basin. As a part of the continuous development of the nearby area Rancho Los Amigos terminated the last of its farming operations in 1963. The cessation of the farm operations was followed by the sale of the Rancho's surplus land, subsequently developed as suburban housing tracts. By the mid-1960s Rancho Los Amigos was surrounded by housing tracts. In addition,

incursions to the immediate area surrounding the South Campus included the completion, in 1974, of a public library at the intersection of Imperial Highway and Old River Road, followed several years later by the construction of a four-story courthouse, to the east of the library. By the late 1990s three large "box style" buildings had been built within the core area of Rancho Los Amigos' South Campus. Because of their large size, and contemporary architectural style these buildings are out of character with the historic scheme of Rancho Los Amigos. As a result South Campus' integrity of setting is poor.

(This area left intentionally blank for the statistical table that follows)

Table 2: Inventory of Demolished/Destroyed Buildings and Features: South Campus			
(Please note that not all buildings had a LACO inventory number) **Building demolished or destroyed between circa 1950 and 2003**	**Building Name/Type**	**Demolition Date**	
EMPLOYEE/STAFF HOUSING AND AMINITIES			
1105	Employee Cottage	After 1990	
1106	Employee Cottage	After 1990?	
1107	Employee Cottage	1966	
1108	Employee Cottage	After 1974	
1109	Employee Cottage	After 1974	
No #	Employee Cottage	1966	
No #	Employee Cottage	1966	
No #	Employee Cottage	1966	
No #	Employee Cottage	1966	
No #	Employee Cottage	1966	
1110	Executive Officers House	After 1974	
1111	Executive Officers House	After 1974	
1112	Executive Officers House	After 1974	
1113	Executive Officers House	After 1974	
1164	Garage associated w/ Executive Officers House	After 1974	
1165	Garage associated w/ Executive Officers House	After 1974	
1166	Garage associated w/ Executive Officers House	After 1974	
Staff Housing			
1122	4-unit Apartment	After 1995	
1124	4-unit Apartment	After 1995	
1125	Employee Dormitory	After 1995	
1126	Employee Dormitory	After 1995	
1127	Employee Dormitory	After 1995	
1128	Employee Dormitory	After 1995	
1129	Bungalow Court Cottage	After 1995	
1130	Bungalow Court Cottage	After 1995	
1131	Bungalow Court Cottage	After 1995	
1132	Bungalow Court Cottage	After 1995	
1133	Bungalow Court Cottage	After 1995	
1134	Bungalow Court Cottage	After 1995	
1135	Bungalow Court Cottage	After 1995	
1136	Bungalow Court Cottage	After 1995	
2926	Staff Cottage	After 1995	
2927	Staff Cottage	After 1995	
2928	Staff Cottage	After 1995	

2929	Staff Cottage		After 1995	
2930	Staff Cottage		After 1995	
(Please note that not all buildings had a LACO inventory number)	**Building Name/Type**		**Demolition Date**	
Building demolished or destroyed between circa 1950 and 2003				
3082	Garage Associated with Staff Housing		After 1995	
3083	Garage Associated with Staff Housing		After 1995	
No #	Employee Playground		After 1995	
No #	Esperanza Park		After 1995	
No.#	Willow Grove		unknown	
1294	Amigos Hall		After 1995	
Patient Services				
1200	Infirmary Ward	1926	c. 2001	
1201	Infirmary Ward	1926	c. 2001	
Support Services				
1318	Garage	Before 1933	After 1974	
1319	Garage	Before 1933	After 1974	
2973	unknown	unknown	After 1974	
3412	Incinerator	After 1933	After 1974	
No #	Landscape Dept.'s Nursery	Circa	Sometime after 1945	
Northeast Quadrant				
Patient Services				
No #	2-Story Women's Wards		1963	
No #	1-story bldg. south of CAO 1202/1203	c. 1925	Before 1960	
Southeast Quadrant				
Support Services				
Patient Services				
No #	Ward #103 (former barn)	1922-1931	c. 1950	
Support Services				
No #	Greenhouse	by 1933	unknown	
No #	Greenhouse	by 1933	unknown	
1355	Greenhouse	by 1933	1995-2002	
Farm Operations				
No #	Creamery Building	between 1925-31	Circa 1950	

No #	Cow Barn	before 1922	Circa 1945		
No #	Horse Stable	before 1922	After 1945		
(Please note that not all buildings had a LACO inventory number)	**Building Name/Type**		**Demolition Date**		
Building demolished or destroyed between circa 1950 and 2003					
No. #	Auto Shed	between 1925-31	After 1945		
No. #	Hay Barn	before 1922	After 1945		
No #	Feed Silos (3)		After 1945		
No #	Barn (converted to ward)	before 1922	After 1945		
No #	Corrals and fences	between c. 1900-1940	After 1945		
Southwest Quadrant Farm Operations					
No #	Poultry coops (5)	between 1925-31	After circa 1940		
No #	Farm building	before 1931	unknown		
No #	Farm building	before 1931	unknown		
1333	Shed	1931	After 1995		
1334	Feed Barn (vivarium)	1926	After 1995		
No #	Large warehouse (for agricultural products)	After 1933	After 1974		
1352 Patient Services	Warehouse	c. 1907	After 1995		
5750	Work Preparation Center	After 1931			
LACO # (please note that not all buildings had a LACO inventory Number	Building Name/Type	Construction Date	Demolition Date	Building related to following aspect of County Farm	
No # Support Services	Train Depot	1907	After 1995		
No #	Office	Before 1925	After 1945?		
No #	Concrete water tank	Before 1925	After 1945?		
No #	Pump House	Before 1925	After 1945?		
No #	Garage	1925-1931	After 1945?		

4) Integrity of Materials

Integrity of materials means that the physical elements present are still present, or if materials have been replaced the replacements have been based on the original.

All of the surviving buildings have undergone alterations and additions since their construction date within the South Campus' period of significance (1888 – 1950). In some cases, such as LACO # 1264, LACO # 1266, and LACO# 1283, these alterations have been so extensive that the buildings no longer retain sufficient integrity to communicate their original design or significance. Modifications to other buildings, such as LACO #1203 and #1205, include the replacement of original fenestration, and the re-cladding of brick buildings in stucco or metal siding. These alterations have diminished the integrity of these buildings. It also should be noted that many of the buildings, including the general wards along Erickson Avenue (LACO #1184-1188) have been severely damaged by arson or suffer from deferred maintenance. While the grounds surrounding the director's residence have preserved the expansive open spaces and some of the landscaping that characterized it during the South Campus' period of significance, the rest of the property has largely lost its landscaped grounds that once characterized the property between the late nineteenth century and circa 1950. Therefore, Rancho Los Amigos, only retains a fair level of integrity in regards to integrity of materials.

5) Integrity of Workmanship

Integrity of workmanship means that the original character of construction details is present. These elements can not have deteriorated or been disturbed to the extent that their value as examples of craftsmanship have been lost.

When assessing the overall integrity of Rancho Los Amigos' South Campus, the integrity of the individual buildings that make up the property must be considered. It should be noted that a number of buildings on the South Campus of Rancho Los Amigos retain fair to good integrity of Workmanship (please see Table 2, pg.144-146, for

a list of these buildings). These include LACO # 1300 – 1302 (power plant complex), LACO #1238 (Casa Consuelo), LACO #1100 (Public Safety Building), and Building 1101, (Superintendent's Residence). However, a significant number of buildings have deteriorated through deferred maintenance or arson. Other buildings have been remodeled to the extent that their original architectural details or finishes have been lost. Therefore, Rancho Los Amigos only retains a fair level of integrity in regards to integrity of workmanship.

6) Integrity of Feeling:

The South Campus of Rancho Los Amigos has undergone a significant series of alterations and modifications since the end of its period of significance (1950). These include the removal of at least 42 buildings and features and the insertion of three large "box style" buildings in or adjacent to the core of the South Campus. Many of the remaining buildings have suffered from loss of historic fabric through deferred maintenance or vandalism. The loss of almost all the buildings and features associated with the Rancho's farm operations has diminished the ability of the property to represent a vital component of its history. The additional loss of all but two of the staff housing has severely diminished the ability of the property to convey its appearance during its period of significance. While the core area of the campus has retained a large number of original buildings, they cannot fully interpret and convey those qualities that characterized the property during its period of significance. Therefore, Rancho Los Amigos only retains a fair level of integrity in regard to integrity of feeling.

7) Integrity of Association

Integrity of association refers to those qualities that help convey a property's appearance during its period of significance. As detailed above, the South Campus of Rancho Los Amigos has undergone a significant number of alterations since the postwar years. These alterations have resulted in the demolition of more than 42 buildings, the insertion of buildings that are out of character with the historic buildings of the Rancho

Los Amigos' South Campus, and the transformation of the surrounding environs from farm land to suburban housing tracts. These changes have diminished the ability of the South Campus of Rancho Los Amigos to convey its historic associations. Of the four primary elements, 1) patient care and housing; 2) farming; 3) staff housing; and 4) maintenance services, only two can be sufficiently conveyed through the remaining buildings. These two are 1) patient care and housing and 4) maintenance/support services. It should be noted that a large number of facilities, such as the general wards and the psychopathic wards, survive. In addition, a large number of service buildings, such as the Power Plant, garage and maintenance buildings, survive. Consequently, these two aspects of the property maintain good integrity of association. However, it should be noted that two elements that were integral to Rancho Los Amigos and its historic development, its staff and farm operations, cannot be interpreted because they are not well represented by the surviving buildings on the South Campus.

5.4.1 Summary Statement of Integrity

The South Campus of Rancho Los Amigos retains a good level of integrity in regard to location; a fair level of integrity in regard to materials and workmanship, and a poor level of integrity for design, setting, feeling and association. The numerous changes that have taken place since the postwar period have led to the destruction of numerous buildings and the insertion of larger buildings whose scale, bulk and massing are out of character with those buildings constructed on South Campus during its period of significance (1888-1950). In addition, the farm and dairy module, once a significant contributory component of Rancho Los Amigos is no longer there and the setting of the property has been altered from rural to urban. Therefore, the South Campus of Rancho Los Amigos does not retain sufficient integrity for nomination as a historic district.

Post/Hazeltine Associates notes that this conclusion is at variance with the findings of a previous historic survey prepared by Historic Resources Group in 1995 that determined that the South Campus was a National Register eligible historic district. *Post/Hazeltine Associates* believes that the current survey accurately reflects the integrity

of the property and its potential eligibility for nomination as a National Register Historic District.

5.4.2 Integrity of Individual Buildings

The following section summarizes the integrity of individual buildings on the South Campus of Rancho Los Amigos (Please refer to Table 2 for list of these buildings and features).

Northwest Quadrant (bounded by Descanso Street, Laurel street Erickson Avenue and Imperial Highway (see Figure 2):

LACO #1121 (Staff Cottage)

The cottage's physical condition is considered to be fair. However the building retains sufficient architectural integrity for further analysis.

LACO #1123 (Staff Cottage)

The cottage's physical condition is considered to be fair. However the building retains sufficient architectural integrity for further analysis.

LACO #1189-1197 (One-Story Wards)

Post-construction alterations, including the transformation of the screened-in porches into interior space, the stuccoing of some of the elevations, the replacement of part of the fenestration, and the insertion of a number of small additions, have diminished the integrity of the nine wards. In addition vandalism and deferred maintenance has resulted in significant deterioration to the building's fabric. However, the complex of nine wards has retained sufficient physical integrity for further analysis.

LACO #1198 and #1199 (General Wards)

The loss of two of the four ward buildings has significantly diminished the overall integrity of this complex.

LACO #1295 (Kitchen and Employee Dining Room)

Though a number of the building's original windows have been replaced. Nevertheless, the building has retained sufficient physical integrity for further evaluation.

LACO #1300, #1301 and #1302 (Old Power Plant, Water Tower, Machine Shop, Laundry and Ice Plant)

Deferred maintenance and vandalism has resulted in significant damage to the fabric of the Power Plant complex. However, the complex has retained a high degree of integrity. Therefore, the building has retained sufficient physical integrity for further evaluation.

LACO #5547 (Circular Metal Tank)

The tank was built in 1966. It was built after the property's period of significance and is less than 50 years of age. Therefore, it will not require further evaluation.

LACO #5548 (1966 Power Plant):

Built in 1966, the power plant is less than 50 years of age and was built after the property's period of significance. Therefore, it will not require further evaluation.

Northeast Quadrant

LACO #5028 (former patient ward building)

The building is less than 50 years of age and was built after the property's period of significance. Therefore, it will not require further evaluation.

LACO #1204/1205 (Men's Psychopathic Wards)

The original brick exterior walls on the west elevation and on the west end of the north and south elevations have been clad in metal siding. The west elevation's original fenestration and doors have been replaced. The remainder of the building's exterior has retained a high degree of integrity.

Buildings and Structures within the Central Courtyard of LACO #1204/1205

Eleven small buildings and structures are located within the courtyard of Building #1204/1205.

LACO #1243 (Canopy Shelter)

This canopy shelter was built sometime after circa 1950, replacing an earlier circa-1916 structure. Because the shelter is a recent addition, it does not require further evaluation.

LACO #1244 (Toilet Building)

The Toilet Building is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity. Therefore, the building has retained sufficient physical integrity for further evaluation.

LACO #1245 (Linen Room)

The Linen Room Building is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity. Therefore, the building has retained sufficient physical integrity for further evaluation.

LACO #1246 (Metal Canopy)

The metal canopy was constructed sometime after 1950. Because the canopy is a recent addition, and post-dates the property's period of significance, it does not require further evaluation.

LACO #1249 (Toilet Building)

The Toilet Building is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #1251(Metal Canopy Shelter)

The metal canopy shelter was constructed sometime after 1950. Because the shelter is a recent addition, and post-dates the property's period of significance it does not require further evaluation.

LACO #2434 (original use unknown)

The building was constructed in 1949, and represents one of the last significant additions to the complex of building's that makes up the Men's Psychopathic Wards. The building is in fair physical condition. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #2435 (Metal Building)

This prefabricated metal building was constructed in 1949, and represents one of the last significant additions to the complex of building's that makes up the Men's Psychopathic Wards. The building is in fair physical condition. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #2436 (Metal Building)

This prefabricated metal was constructed in 1949, and represents one of the last significant additions to the complex of building's that makes up the Men's Psychopathic Wards. The building is in fair physical condition. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #2437 (Metal Building)

This prefabricated metal was constructed in 1949, and represents one of the last significant additions to the complex of building's that makes up the Men's Psychopathic Wards. The building is in fair physical condition. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #3820 (Loading Dock)

The Loading Dock Building was constructed in 1954; it represents the last significant addition to the complex of buildings that makes up the Men's Psychopathic Wards. The building is in fair physical condition. However, the building is less than 50 years of age. Therefore, it does not require further evaluation.

LACO #1202 and #1203 (Women's Psychopathic Ward)

The original brick exterior walls on the west elevation and on the west end of the north and south elevations have been clad in metal siding. The west elevation's original fenestration and doors have been replaced. The remainder of the building's exterior, however, has retained a high degree of integrity. Therefore, the building has retained sufficient integrity for further evaluation.

Buildings and Structures within the Interior Courtyard of the Women's Psychopathic Wards

The following four small buildings and structures are located within the courtyard of LACO #1203/1204.

LACO #1239 (Toilet Building)

The Toilet Building is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #1240 (Canopy Shelter)

The metal canopy shelter is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #1241 (Linen Room)

The Linen Room Building is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity and the building has retained sufficient integrity for further evaluation.

LACO #1242 (Toilet Building)

The Toilet Building is in fair physical condition. It has been damaged by deferred maintenance and vandalism. The building has maintained good physical integrity. Therefore, the building has retained sufficient integrity for further evaluation.

LACO #1254 (Former Chapel)

The former chapel building is not at its original location. It has undergone a fairly extensive series of alterations, including the addition of a side wing, the addition of metal siding, and the replacement of the original wood windows with metal windows. Because of these alterations the building as a low level of integrity in regard to its design and location. Because of these alterations the building does not retain sufficient integrity for further evaluation.

LACO #1238 (Casa Consuelo)

Casa Consuelo underwent a large-scale renovation in the mid-1980s. These alterations resulted in the replacement of many of the building's exterior windows. However, the building has retained its original exterior configuration and details, roofing type, and wrought iron embellishments. Therefore, the building has retained sufficient physical and design integrity to merit further evaluation.

LACO #3592 (former Protestant, Jewish and Roman Catholic Chapel)

The chapel has retained its original exterior configuration and details, roofing type, and fenestration. The building is in good physical condition. However, since the building is 48 years of age, it does not meet the 50 years-of-age criterion generally necessary for evaluation.

Southeast Quadrant

LACO #1101 (Superintendent's House)

The building has retained its original exterior configuration and details, roofing type, and most of its original fenestration. The building is in good physical condition. Post-construction modifications to the house's exterior include the enclosure of two second floor sleeping porches and a first floor porch. The house's exterior has not suffered from significant deterioration or vandalism. Therefore, the building has retained sufficient integrity to represent its architectural style and period of historic significance.

LACO #1177 (Superintendent's Garage)

The garage has retained its original exterior configuration and details, roofing type, and most of its original fenestration. The building is in fair physical condition. Post-construction modifications to the house's exterior include the addition of a carport off of the west elevation. This alteration has somewhat diminished the integrity of the building. In other respects the garage's exterior has not been significantly altered since its construction. The garage's exterior has not suffered from significant deterioration or vandalism. Therefore, the building has retained sufficient integrity to represent its architectural style and period of historic significance.

LACO #1178 (Garden Shed)

The small garden shed associated with the nearby Superintendent's house has retained its original configuration. The building is in fair physical condition. No significant post-construction modifications have been made to the shed's exterior. The shed's exterior has not suffered from significant deterioration or vandalism. Therefore, the building has retained sufficient integrity to represent its architectural style and period of historic significance.

LACO #1100 (former Administrative Building)

The former Administrative Building has retained its original ornamental cast stone embellishments, wrought iron work, roofing type, and most of its original fenestration. Sometime after 1931, the exterior configuration was altered when the north elevation's arcaded portico was removed. With the exception of this one modification, the exterior configuration has remained substantially intact. The building is in excellent physical condition, having been rehabilitated in the late 1980s. Therefore, the building has retained sufficient integrity to represent its architectural style and period of historic significance.

LACO #2677 (Post Office)

The Post Office is not in its original location. Several modifications, including the replacement of several doors and the stuccoing of the exterior walls have been made to the building since it was moved onto its present site in 1949. Therefore, since the building does not retain its integrity of location, it does not retain sufficient integrity and potential historic significance to require further evaluation.

LACO #1353: (Lath House)

The Lath House is dilapidated, and much of its lath is missing or damaged. However, the building has retained sufficient design and physical integrity to communicate its original design and period of significance.

LACO #1356 (Tool House)

The Tool House has been at its current location since 1936. It original fenestration was replaced by aluminum frame windows sometime in the last 20 or 30 years. The building is in poor physical condition. However, the building has retained

sufficient design and physical integrity to communicate its original design and period of significance.

LACO #1357: (Landscape/Nursery Office)

The Landscape /Nursery Office has retained its original exterior configuration and cladding. Post-construction modifications to the house's exterior include the addition of aluminum frame windows, and the replacement of the original doors. These alterations have significantly diminished the ability of the building to represent its architectural style and period of historic significance. Therefore, the building does not retain sufficient design and physical integrity to communicate its period of significance.

LACO #1284, #1373 and #1374 (Circular Tanks)

The three tanks post-date 1933, as they are not depicted on the aerial photograph of Rancho Los Amigos taken in that year. The tanks appear to have undergone no significant alterations since their construction sometime between circa 1933 and circa 1950. Therefore, they have retained sufficient physical integrity to represent their type and period of historic significance.

LACO #1137 (former Dairyman's House)

The Dairyman's house has retained its original exterior configuration and cladding as well as almost all of its fenestration. Post-construction modifications to the house's exterior include the demolition of the north end of the front porch and enclosure of the middle section of the front porch. The building is in very poor condition. Part of the kitchen roof has collapsed and much of the interior has been vandalized or damaged by arson. Despite the fact that the Dairyman's house is in poor condition, it, nevertheless, retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1179 (Garage for Dairyman's House)

The garage for the Dairyman's house has retained its original exterior configuration and cladding. Post-construction modification to the garage's exterior includes the replacement of the bay door. The building is in very poor condition. While the garage is in poor condition, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1283 (former Stable)

Post-construction modifications to the stable's exterior include the removal of the building's second floor shortly after it was damaged by 1933 Long Beach earthquake. In addition, more recently, prefabricated additions have been added to the rear elevation. The building's physical condition is good. However the loss of the original second floor and the non-contextual additions to the rear elevation, have significantly diminished the ability of the building to represent its architectural type and period of historic significance. Therefore, the building does not retain sufficient design and physical integrity to communicate its period of significance.

LACO #1286 (former Garage and Storage Building)

The Garage and Storage Building has retained its original exterior configuration. Post-construction modifications to the garage's exterior include the enclosure of the open bays on the north and west elevations with sheets of corrugated metal. The building is in fair condition and retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1287 (Former Oil and Storage Building)

The Oil and Storage Building has retained its original exterior configuration, cladding and fenestration. Post-construction modifications to the building's exterior

include the addition of a freight door to the second floor and the addition of a concrete ramp to the north elevation. The building is in fair condition and retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #2492 (Toilet Building)

The Toilet Building has retained its original exterior configuration, cladding and fenestration. The building is in fair condition and retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1991 (Property Warehouse)

The Property Warehouse is a pre-fabricated metal building has retained its original exterior configuration, cladding and fenestration. It should be noted that the building was probably built in the late 1940s or early 1950s. The building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #3591 (Property Warehouse)

The Property Warehouse is a pre-fabricated metal building that was erected in circa -1970 or later. The building is less than 50 years of age and post-dates the property's period of significance (1888-1950). Therefore, further evaluation will not be required.

LACO #2637 (Steam Laundry)

The Steam Laundry was built in 1951. The building has retained its original exterior configuration, cladding and fenestration. The building retains sufficient physical integrity to represent its architectural type and period of historic significance.

Southwest Quadrant

LACO #1260 (Bathhouse)

The Bathhouse Building has retained its original exterior configuration and cladding. Over the years the building has undergone a number of alterations, including the replacement of doors and windows, some of which have been sealed over. Sometime after 1930 the screened-in porch on the west elevation's second floor was remodeled into interior space. The physical condition of the building is poor. The alteration of original doors and windows and the enclosure of the original second floor porch on the west elevation have diminished the integrity of the building. However, despite these changes the building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1261 (Auditorium)

The Auditorium Building has undergone several alterations and modifications since its construction. Sometime in the past the building's brick exterior was covered in stucco. The original front doors have been replaced and some of the Art Deco detailing of the interior has been removed or destroyed. These alterations have diminished the integrity of the building. However, despite these changes the building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1262/1263 (Building with Dining, Kitchen, Commissary and Staff Rooms)

The building's exterior has remained substantially unaltered since circa 1921. Since that time the building's exterior has been painted and modifications have been made to its interior. Within the last ten years the building's interior has been damaged by arson and vandalism. However, even with these changes the building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1184, #1185, #1186, #1187, and #1188 (General Ward Buildings)

The General Ward Buildings have retained their original configuration and exterior cladding. The buildings have undergone a number of significant alterations, including the enclosure of the open porches on the east and west elevations, and the replacement of a number of the buildings' original doors and windows. Over the last fifteen years the buildings have been severely damaged by vandalism and arson. Therefore, the condition of the five ward buildings is poor. While the General Ward Buildings are in poor condition they have retained sufficient physical integrity and design integrity to represent their architectural type and period of historic significance.

LACO #1256 (Toilet Building)

The building has retained its original exterior configuration, cladding and fenestration. The building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1264 (Bonita Hall)

Bonita Hall was extensively remodeled in 1974 when its tile roof was removed, windows replaced or altered, and its open arcade partially infilled. These alterations have so altered the building that it no longer retains sufficient integrity to convey its original design or represent its period of significance.

LACO # 3390 (Prosthetic Shop)

The Prosthetic Shop is one of the few buildings on the Rancho's South Campus to incorporate references to Modernist architecture. The building has retained its original exterior configuration, cladding and fenestration. The building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO # 1266 Descanso Hall (former Occupational Therapy Building)

Descanso Hall (the former Occupational Therapy Building) has undergone a significant number of alterations and modifications since its construction in 1928. A landscaped courtyard, porch, and a series of French doors have been added to the south side of the building. The façade's front entrance has been replaced by window. Sometime in the last 15 years the rear of the building was gutted. This resulted in the removal of wall cladding and many of the building's windows. Because of these alterations the building has a low level of integrity and is in poor physical condition. Therefore, the building does not retain sufficient design integrity or physical integrity to represent its architectural type and period of significance.

LACO #1267 (Occupational Therapy Building)

The building has retained its original exterior configuration, cladding and fenestration. A breezeway that connected the building to LACO #1266 has been removed. The building is in fair condition and retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1335 (Brooder House)

The Brooder House has been extensively damaged by arson and is missing several of its ancillary features, such as the feed barn. Therefore, the building does not retain sufficient physical integrity or design integrity to represent its original function, architectural type or period of historic significance.

LACO #1379/4121 (Garage)

The garage has retained its original exterior configuration, cladding and fenestration. The building is in good condition. It retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #4118 (Garage)

The garage has retained its original exterior configuration, cladding and fenestration. The building is in good condition. It retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1464 (Shed)

The shed has retained its original exterior configuration and cladding. The structure is in good condition. It retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #3348 (Decontamination Room)

The Decontamination Room (later called the Garbage Can Room) has retained its original exterior configuration, cladding and fenestration. The building is in fair condition. It retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1275 (Workshop Building)

The Workshop Building has retained it original brick walls and fenestration. The addition of a wood frame wing off of the south elevation occurred during the building's period of significance, and has not impacted the building's integrity of design. The painting of the exterior brick walls has somewhat diminished the integrity of the building. However, it retains sufficient physical integrity to represent its architectural type and period of historic significance. It is fair condition and has good integrity of design.

LACO #1277 (Garage)

The garage has retained its original cladding and fenestration. The addition of a wood frame wing connecting the garage to the Workshop Building (LACO #1275) occurred during the building's period of significance, and has not significantly impacted its integrity of design. The garage is in fair condition. It retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1278 (Garage)

The garage has retained its original cladding and configuration. The building is fair condition and has good integrity of design. Therefore, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1280 (Garage)

The garage has undergone few alterations since its construction. It has retained its original cladding and configuration. It is fair condition and has good integrity of design. Therefore, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1268 (Storage Building)

The Storage Building has undergone few alterations since its construction. It has retained its original cladding and configuration. It is fair condition and has good integrity of design. Therefore, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1270 (Garage Building)

The garage has undergone few alterations since its construction. It has retained its original cladding and configuration. It is fair condition and has good integrity of design. Therefore, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #954 (Lumber Shed)

Within the last 20 years deferred maintenance and vandalism have damaged the Lumber Shed. Most of the sliding wood doors on the east and west elevations have been removed. It is poor condition, but has fair integrity of design. The building, however, does not retain sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #3368 (function of building unknown)

This structure has retained its original concrete walls, roof and configuration. It is fair condition. Within the last ten years Building #3368 has been damaged by vandalism. Its condition is fair and it has maintained fair integrity of design. Despite damage to it, the building retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1207 (Work Preparation Center)

The Work Preparation Center has undergone a number of alterations since its construction, including the conversion of its interior into a patient ward. However, these alterations occurred during the building's period of significance, and have not significantly impacted its integrity of design. The building is in fair condition and has good integrity of design. Therefore, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1259 (Wheelchair Repair Building)

The Wheelchair Repair Building has undergone a series of alterations and modifications. The loggia that projected off of the east elevation was enclosed and an addition was made to the south elevation. Many of the existing metal frame windows have been replace within the last 35 years. A number of these alterations occurred during the building's period of significance. However the scope of these modifications has so altered the building that it no longer represents the original vernacular style of the building. Therefore, it does not retain sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1279 (Garage)

The garage has undergone few alterations, retains its original cladding and configuration, is fair condition and has good integrity of design. It retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1276 (Lock Shop)

The building has retained its original configuration and brick walls. Alterations to the building include replacement of original doors and windows, painting of the exterior and the construction of an addition off of the west elevation. These alterations have somewhat diminished the building's architectural integrity. However, it retains sufficient physical integrity to represent its architectural type and period of historic significance.

LACO #1290 (Shelter)

The shelter has undergone a number of alterations since its construction. These include the enclosure of the west end of the shelter and the replacement of the original lattice style roofing material. It is fair condition. However the structure retains sufficient physical integrity to represent its architectural type and period of historic significance.

Table Summarizing the Integrity of the Remaining Buildings on South Campus

Table 2

LACO #	Building Name	Construction Date	Retains sufficient integrity for further evaluation	Does not retain sufficient integrity for further evaluation	Less than 50 years of age; no further evaluation required
Northwest Quadrant					
1121	Staff Cottage	1921	X		
1123	Staff Cottage	1921	X		
1189	Patient Ward	1922	X		
1190	Patient Ward	1922	X		
1191	Patient Ward	1922	X		
1192	Patient Ward	1922	X		
1193	Patient Ward	1924	X		
1194	Patient Ward	1924	X		
1195	Patient Ward	1924	X		
1196	Patient Ward	1924	X		
1197	Patient Ward	1926	X		
1198	Patient Ward	1926	X		
1199	Patient Ward	1926	X		
1295	Main Kitchen & Dining Building	1927	X		
1300	Old Power Plant & Chimney	1909-926	X		
1301	Water Tower	1913	X		
1302	Machine Shop	1911	X		
5547	Circular Tank	1966			X
5548	New Power Plant	1966			X
Northeast Quadrant					
1100	Patient Wards	1963			X
1204/1205	Men's Psychopathic Wards	1907-1924	X (partially)		
Buildings & structures within the courtyard of 1204/1205:					
1243	Unknown	1950			
1244	Toilet Building	1916	X		
1245	Linen Room	1932	X		

LACO #	Building Name	Construction Date	Retains sufficient integrity for further evaluation	Does not retain sufficient integrity for further evaluation	Less than 50 years of age; no further evaluation required
1246	Canopy	1950?	X		
1249	Toilet Building	1950?	X		
1251	Canopy	1949	X		
2434	Unknown	1949	X		
2435	Metal Building	1949	X		
2436	Metal Building	1949	X		
2437	Metal Building	1949	X		
3820	Loading Dock	1954			X
No #	Aviary	1889	X		
1202/1203	Women's Psychopathic Wards		X (partially)		
Buildings & structures within the courtyard of 1204/1205:					
1239	Toilet Building	1930	X		
1240	Shelter	1930	X		
1241	Linen Room	1932	X		
1242	Toilet Building	1930?	X		
1252	Old Chapel	1908		X	
1238	Casa Consuelo	1928	X		
Southeast Quad					
1101	Superintendent's House	1915	X		
1177	Superintendent's Garage	1915-17	X		
1178	Superintendent's garden shed	1915-17	X		
1100	Administrative Building	1926	X		
2677	Post Office	1949		X	
1353	Lath House	Before 1925	X		
1356	Tool House	1930		X	
1357	Landscape/Nursery Office	1930		X	
1284, 1373, 1374	Circular Tanks	unknown	X		
1137	Dairyman's House	1907	X		
1179	Garage for Dairyman's House	c. 1915	X		
1283	Stable Building	1913		X	
1286	Garage/Storage Building	Circa 1902-1920	X		
1287	Oil & Storage Building	1909	X		

LACO #	Building Name	Table 2 Construction Date	Retains sufficient integrity for further evaluation	Does not retain sufficient integrity for further evaluation	Less than 50 years of age; no further evaluation required
2492	Toilet Building	After 1930	X		
1991	Property Storage Building	Circa 1949	X		
3591	Property Storage Building	Circa 1970			X
2637	Steam Laundry	1951	X		
Southwest Quad					
1260	Bathhouse	1922	X		
1261	Auditorium	1928	X		
1262	Dining Rooms, Kitchen, staff rooms	1910-1913, 1921	X		
1263	Former Commissary	1913, 1921	X		
1184	General Ward	1914	X		
1185	General Ward	1914	X		
1186	General Ward	1914	X		
1187	General Ward	1926	X		
1188	General Ward	1926	X		
1256	Toilet Building	1926	X		
1264	Bonita Hall	1932		X	
3390	Prosthetic Shop	1949	X		
1266	Descanso Hall (Occ. Therapy)	1928		X	
1267	Occupational Therapy	1930	X		
1335	Brooder House	1929		X	
1379/4121	Garage	After 1933	X		
4118	Garage	After 1933	X		
1464	Shed	1945	X		
3348	Garbage Can Room	1951	X		
1275	Workshop Building	1913-1945	X		
1278	Garage	1928	X		
1280	Garage	1928	X		
1268	Storage Building	1925-1930	X		
1270	Garage	1932	X		
954	Lumber Shed	1942		X	
3368	Function unknown	After 1945	X		
1207	Work Preparation Center (former barn/ward)	Before 1925?	X		
1259	Wheelchair Repair Building	Before 1925		X	
1279	Garage	Before 1913 w/ later additions	X		
1276	Lock Shop				
1290	Shelter	Before 1922-1925	X		

5.4.3 Integrity of the Landscape Component of Rancho Los Amigos

Rancho Los Amigos began as the County Poor Farm. With the exception of a small group of institutional buildings at its core, the property resembled other farm and ranch properties of the era. During the late nineteenth and early twentieth century farms in California usually consisted of a main house surrounded by landscaped grounds that provided a buffer between the residence and the surrounding fields and farm buildings. Rancho Los Amigos was organized along similar lines. Examination of historic photographs, site plans and an examination of the remaining landscaping features reveal that formal landscaping was concentrated along Erickson Avenue around the Superintendent's house and the nearby administrative and infirmary buildings.

Much of the campus, especially those areas devoted to farming operations and support services (facilities management) were not landscaped in the formal sense. Formal landscaping on South Campus was in the semi-naturalistic tradition popular in the late Victorian era. The style was typified by extensive use of exotic specimen plants planted out in formal beds that were surrounded by a semi-naturalistic landscape of expansive lawns planted with large trees. The landscaping of the County Poor Farm did not reach the level of complexity found in gardens designed simply for pleasure. However, with its avenues of Eucalyptus and palm trees, formal flower beds and large specimen trees the farm did incorporate references to this style. Set within an expansive network of fields and farm buildings, Rancho Los Amigos' maintained its essentially rural landscape for the 62-year period between 1888 and 1950. However in the post-World War II period the rapid suburbanization of the Los Angeles basin profoundly altered the setting of Rancho Los Amigos, which was soon surrounded by housing tracts and a commercial corridor paralleling Imperial Highway.

On the Rancho itself, postwar development was increasingly focused on establishing new hospital facilities north of Imperial Highway. During this same period, its farming operations were being phased out and many of the buildings and structures that supported the Rancho's crop growing and animal husbandry were demolished. By

the mid-1960s most of the South Campus was no longer the focus of patient care, its vacated buildings having been relegated to housing storage and records for the Rancho's hospital facilities, now located on the North Campus. In the 43-year period since 1960 many of South Campus' buildings have been demolished, thereby changing the historic spatial arrangements that had characterized the property during its period of significance. Landscape features that had once defined the property, such as Esperanza Park, the lush landscaping along Erickson Avenue and removal of the avenues of trees that once lined several of the main thoroughfares, have been removed.

The insertion of several large prefabricated buildings has also diminished the original arrangement of buildings that once characterized the complex. Finally, the construction of large 'big box' commercial buildings within the grounds of South Campus has removed hardscape features, such as streets and sidewalks, changed the spatial layout, and removed historic plantings. Because of these alterations, the South Campus of Rancho Los Amigos has not retained a sufficient level of integrity in regard to the character-defining features that characterized its landscape during the property's period of significance.

5.5 Potential Eligibility of the Individual Structures and Features for Nomination to the National Register of Historic Places

5.5.1 Northwest Quadrant (bounded by Descanso Street, Laurel Street, Erickson Avenue and Imperial Highway (see Figure 2):

Building #1121 (Staff Cottage): The cottage is a vernacular style building whose original context has been significantly diminished by the demolition of other staff residences. The building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Building #1123 (Staff Cottage): The cottage is a vernacular style building whose original context has been significantly diminished by the demolition of other staff residences. The building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1189-#1197 (Infirmary wards): Post-construction alteration to the buildings' interiors and exteriors, which include the stuccoing of some of the elevations, the replacement of part of the fenestration, and the insertion of a number of small additions have diminished the integrity of the buildings. The buildings represent a common type of construction that was prevalent through out most of the twentieth century. While in fair condition, the buildings do not have the type of historic associations or architectural significance that would make them eligible for nomination to the National Register of Historic Places on an individual level. In addition, they are not part of a distinguishable entity that would make them eligible for nomination as a contributing element to a historic district.

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LACO #1295 (Kitchen and Employee Dining Room): The kitchen building does not embody the level of architectural or historical significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1300, #1301 and #1302 (Power House, Water Tower, Machine Shop, Laundry and Ice Plant): The Power House complex, with its chimney and water tower, represents an important example of early twentieth century industrial design. The complex's water tower and chimney have been visually prominent features of the viewscape of Downey since 1913 (water tower) and 1926 (chimney). The 1926 wing of the building, with its classical style façade and large over-scaled windows, represents a regionally important example of the application of classical imagery to an industrial

building. This was a not uncommon phenomenon during the early twentieth century, a period when Classical Revival style architecture enjoyed widespread popularity for public works projects. Examples of this style in Los Angeles County can be seen in such buildings and engineering works as the Department of Water and Power Distributing Station #2 (1916), the Hall of Justice (1925), the Fourth and Lorena Streets Bridge (Boyle Heights 1928), and the Macy Street Viaduct (1926). The vernacular brick wings of the Power House building still contain many of the working features that communicate its original use as a power/ice plant, including the steel water tower, concrete chimney and wood evaporating tower. Because the building retains both its vernacular and high style architectural elements it is eligible for designation to the National Register under Criterion *c*. It also should be noted that the building has formed an integral and important element of the skyline of the nearby communities of Downey and Southgate for 77 years, and may derive historic significance from this fact.

5.5.2 Northeast Quadrant

LACO #1204/1205 (Men's Psychopathic Ward): Alterations to the Men's Psychopathic Ward's primary street façade (west elevation) have significantly reduced the integrity of the building. The addition of several freestanding buildings to the building's courtyard has also altered the original configuration of this space. Alterations to the interior have modified the configuration of interior spaces that characterized the building during its period of significance. Therefore, the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Buildings and Structures within the Central Courtyard of LACO #1204/1205

Eleven small buildings and structures are located within the courtyard of Building #1204/1205. A total of five buildings either post-date the South Campus's period of

significance (which ended in 1950) or are prefabricated structures that do not require further evaluation. These include the following: LACO #1243, LACO #1246, LACO #1251 and LACO #3820. The remaining structures are evaluated below:

LACO #1244 (Toilet Building): As an individual structure the Toilet Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1245 (Linen Room): As an individual structure the Linen Room Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1249 (Toilet Building): As an individual structure the Toilet Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #2435, #2436, #2437, (Metal Buildings): As an individual structures these prefabricated buildings do not have the type of historic associations or architectural significance that would make them eligible for nomination to the National Register of Historic Places on an individual level. In addition, each individual structure is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Aviary (no number): The Aviary (constructed 1888) is the oldest surviving structure on Rancho Los Amigos. However, the utilitarian structure lacks the level of craftsmanship,

design or historical association that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1202/1203 (Women's Psychopathic Ward): Alterations to the Women's Psychopathic Ward's primary street façade (west elevation) have significantly reduced the integrity of the building. The addition of several freestanding buildings to the building's courtyard has also altered the original configuration of this space. Alterations to the interior have modified the configuration of interior spaces that characterized the building during its period of significance. As an individual structure the Women's Psychopathic Ward does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Buildings and Structures within the Interior Courtyard of the Women's Psychopathic Ward

LACO #1239 (Toilet Building): As an individual structure the Toilet Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1240 (Shelter): This modest prefabricated structure does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1241 (Linen Room): As an individual structure the Linen Room Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1242 (Toilet Building): As an individual structure the Toilet Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1238 (Casa Consuelo): Casa Consuelo is an excellent example of the Spanish Colonial Revival style applied to a large institutional building. The building has several character-defining features of the Spanish Colonial Revival style, including its arcuated porticos, moderately pitched roof covered in c-shaped Spanish style tiles, wrought iron embellishments, u-shaped courtyards, and the primacy of the wall surface over window openings. The building's symmetrical massing, while somewhat uncharacteristic of the style, is a characteristic feature of institutional architecture, which often necessitated the used of rational floor plans. Because the building is an excellent example of the Spanish Colonial Revival style as applied to public institutional architecture it is eligible for designation to the National Register of Historic Places under Criterion *c*.

5.5.3 Southeast Quadrant

LACO #1101 and #1177 (Superintendent's House and Garage): The Superintendent's house (Harriman House) and garage are both excellent examples of Craftsman architecture built in the early decades of the twentieth century. Both buildings exhibit a number of the attributes that identify them with the Craftsman aesthetic, including their clapboard siding, moderately pitched roof, deep eaves and exposed rafter tails. Like many structures constructed in this style the design was predicated, in large measure, on

the artistic tenets of the mid-nineteenth century English Arts and Crafts Movement. Promoted by such men as John Ruskin and William Morris and later, Gustave Stickley, in America, adherents of the Craftsman movement rejected what they perceived as the overly elaborated, machine-made decorative motifs of late nineteenth century High Victorian design and ornamentation. Instead, they favored simpler compositions based on an open plan, horizontal massing, integration with the landscape, smooth, unadorned wood surfaces and understated decorative schemes. The Superintendent's house, which possesses all of these features, is an excellent example of the Craftsman style, a style popular from circa 1900 to the mid-1920s. Therefore, the Superintendent's House and its attendant garage possess sufficient architectural significance to qualify under Criterion *c*, at the local level, for nomination to the National Register of Historic Places.

LACO #1100 (former Administrative Building): The former Administrative Building has retained almost all of its features that identify it as an example of the Spanish Colonial Revival style, including the retention of its original ornamental cast stone embellishments, wrought iron work, terra cotta tile roof, and the majority of its original fenestration. This period revival style was popular from circa 1915 to 1940 and drew much of its aesthetic inspiration from the regional style of California's Spanish/Mexican Colonial period. The former Administrative Building is an excellent example of its type and possesses sufficient architectural significance to qualify under Criterion *c*, at the local level, for nomination to the National Register of Historic Places.

LACO #1138 (Shed): As an individual structure the shed does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. However, because it represents an intact, integral and contemporaneous component of the Superintendent's House's (Harriman House) property, it qualifies under Criterion *c,* at the local level, for nomination to the National Register of Historic Places.

LACO #1353: (Lath House): As an individual structure the Lath House does not have the type of historic associations or architectural significance that would make it eligible

for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1356 (Tool House): As an individual structure the Tool House does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1284, #1373 and #1374 (Circular Tanks): The three tanks are a fairly standard type of industrial design, dating from between the mid-1930s to the late 1940s. As individual structures they do not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1137 and #1179 (Dairyman's House and Garage): The former Dairyman's house and its garage represents fairly common examples of an early twentieth century, vernacular style buildings. As an individual structures the house and garage do not have the type of historic associations or architectural significance that would make either eligible for nomination to the National Register of Historic Places on an individual level. In addition, neither structure is a part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1286 (Former Garage and Storage Building): The Garage and Storage Building represents a fairly common example of an early twentieth century industrial/farm building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1287 (Former Oil and Storage Building): The Oil and Storage Building represents a fairly common example of an early twentieth century industrial/farm building. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #2492 (Toilet Building): As an individual structure the Toilet Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1991 (Property Warehouse): The Property Warehouse is a prefabricated building dating to circa 1949. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #2637 (Steam Laundry): The Steam Laundry was built in 1951. The building post-dates the South Campus' period of significance. The building represents a fairly standard type of industrial design dating from the early 1950s. As an individual structure the building does not embody the level of craftsmanship, design or historical association that would make it eligible for nomination to the National Register of Historic Places on the individual level.

5.5.4 Southwest Quadrant

LACO #1260 (Bathhouse): Utilitarian in design the Bathhouse Building is a fairly common example of an early twentieth century institutional building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1261 (Auditorium): The Art Deco designed Auditorium Building has undergone a number of alterations that have somewhat diminished the integrity of the building. These changes, however, are not significant enough to have affected the building's eligibility as an historic resource. Because the building is the only architectural example of Art Deco design on Rancho Los Amigos and because it forms visually connective link with other nearby eligible buildings, including the Harriman House and the old Power Plant, it is eligible to qualify under Criterion c, at the local level, for nomination to the National Register of Historic Places.

LACO #1262/1263 (Building with Dining, Kitchen, Commissary and Staff Rooms): Unlike many of the other vernacular buildings on the South Campus of Rancho Los Amigos the exterior of the Building #1262/1263, which has retained its integrity, represents an excellent example of an early twentieth century vernacular building. While utilitarian in design, the building's brick walls, arched windows and simple cubic volumes are representative of a type of industrial/vernacular design that was a common feature of Los Angeles' urban buildings during the early twentieth century. Because Building #1262/1263 is an excellent example of its type and possesses sufficient architectural significance it qualifies under Criterion *c*, at the local level, for nomination to the National Register of Historic Places.

LACO #1184, #1185, #1186, #1187, and #1188 (General Ward Buildings): Utilitarian in design the General Ward Buildings represent fairly common examples of early twentieth century institutional buildings that eschewed explicit references to a particular architectural style. As an individual structures none of these buildings have the type of historic associations or architectural significance that would make them eligible for nomination to the National Register of Historic Places on an individual level. In addition, none of the individual buildings are part of a distinguishable entity that would make them eligible for nomination as contributing elements to a historic district.

LACO #1256 (Toilet Building): Utilitarian in design the Toilet Building represents a fairly common example of an early twentieth century institutional building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO # 3390 (Prosthetic Shop): While the building does include references to the modernist design, the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1267 (Occupational Therapy Building): Utilitarian in design the Occupational Therapy Building represents a fairly common example of early twentieth century institutional buildings that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a

distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1379/4121 (Garage): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #4118 (Garage): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1464 (Shed): Utilitarian in design the shed represents an extremely common example of an early twentieth century vernacular style building that eschewed explicit references to a particular architectural style. As an individual structure the shed does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #3348 (Decontamination Building): Utilitarian in design the Decontamination Building represents a fairly common example of a mid-twentieth century, vernacular style institutional building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic

associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1275 (Workshop Building): Utilitarian in design the Workshop Building represents a fairly common example of a early-twentieth century, vernacular style institutional building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1277 (Garage): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1278 (Garage): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1280 (Garage): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1268 (Storage Building): Utilitarian in design the Storage Building represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the storage building As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1270 (Garage Building): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #3368 (function unknown): Utilitarian in design this building represents a fairly common example of an mid-twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an

individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1207 (Work Preparation Center): Utilitarian in design the Work Preparation Center represents a fairly common example of an early twentieth century vernacular style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1279 (Garage): Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1276 (Lock Shop): Utilitarian in design the Lock Shop represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1290 (Shelter): The shelter a fairly common example of an early twentieth century vernacular style building that eschewed explicit references to a particular architectural style. As an individual structure the shelter does not have the type of

historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Table Summarizing the Integrity of the Eligibility of the Buildings on South Campus for Nomination to the National Register of Historic Places and California Register of Historical Resources

Table 3

LACO #	Building Name		Not Eligible	Eligible	Criterion
Northwest Quadrant					
1121	Staff Cottage	1921	X		
1123	Staff Cottage	1921	X		
1189	Patient Ward	1922	X		
1190	Patient Ward	1922	X		
1191	Patient Ward	1922	X		
1192	Patient Ward	1922	X		
1193	Patient Ward	1924	X		
1194	Patient Ward	1924	X		
1195	Patient Ward	1924	X		
1196	Patient Ward	1924	X		
1197	Patient Ward	1926	X		
1198	Patient Ward	1926	X		
1199	Patient Ward	1926	X		
1295	Main Kitchen & Dining Building	1927		X	NR = C CRHR = 3c
1300	Old Power Plant & Chimney	1909-1926	X	X	NR = C CRHR = 3c
1301	Water Tower	1913	X	X	NR = C CRHR = 3c
1302	Machine Shop	1911	X	X	NR = C CRHR = 3c
5547	Circular Tank	1966	X		
5548	New Power Plant	1966	X		
Northeast Quadrant					
1100	Patient Wards	1963	X		
1204/1205	Men's Psychopathic	1907-1924	X		

Table 3

LACO #	Building Name		Not Eligible	Eligible	Criterion
1243	Unknown	1950	X		
1244	Toilet Building	1916	X		
1245	Linen Room	1932	X		
1246	Canopy	1950?	X		
1249	Toilet Building	1950?	X		
1251	Canopy	1949	X		
2434	Unknown	1949	X		
2435	Metal Building	1949	X		
2436	Metal Building	1949	X		
2437	Metal Building	1949	X		
3820	Loading Dock	1954	X		
No #	Aviary	1889	X		
1202/1203	Women's Psychopathic Wards		X		
Buildings & structures within the courtyard of 1204/1205:					
1239	Toilet Building	1930	X		
1240	Shelter	1930	X		
1241	Linen Room	1932	X		
1242	Toilet Building	1930?	X		
1252	Old Chapel	1908	X		
1238	Casa Consuelo	1928		X	NR = C CRHR = 3c
Southeast Quad					
1101	Superintendent's House	1915		X	NR = C CRHR = 3c
1177	Superintendent's Garage	1915-17		X	NR = C CRHR = 3c
1178	Superintendent's garden shed	1915-17			
1100	Administrative Building	1926		X	NR = C CRHR = 3c
2677	Post Office	1949	X		
1353	Lath House	Before 1925	X		
1356	Tool House	1930	X		

Table 3

LACO #	Building Name		Not Eligible	Eligible	Criterion
1284, 1373, 1374	Circular Tanks	unknown	X		
1137	Dairyman's House	1907	X		
1179	Garage for Dairyman's House	c. 1915	X		
1283	Stable Building	1913			
1286	Garage/Storage Building	Circa 1902-1920	X		
1287	Oil & Storage Building	1909	X		
2492	Toilet Building	After 1930	X		
1991	Property Storage Building	Circa 1949	X		
3591	Property Storage Building	Circa 1970	X		
2637 Southwest Quad	Steam Laundry	1951	X		
1260	Bathhouse	1922	X		
1261	Auditorium	1928		X	NR = C CRHR = 3c
1262	Dining Rooms, Kitchen, staff rooms	1910-1913, 1921		X	NR = C CRHR = 3c
1263	Former Commissary	1913, 1921		X	NR = C CRHR = 3c
1184	General Ward	1914	X		
1185	General Ward	1914	X		
1186	General Ward	1914	X		
1187	General Ward	1926	X		
1188	General Ward	1926	X		
1256	Toilet Building	1926	X		
1264	Bonita Hall	1932	X		
3390	Prosthetic Shop	1949	X		
1266	Descanso Hall (Occ. Therapy)	1928	X		
1267	Occupational Therapy	1930	X		
1335	Brooder House	1929	X		
1379/4121	Garage	After 1933	X		
4118	Garage	After 1933	X		
1464	Shed	1945	X		
3348	Decontamination Building	1951	X		

Table 3

LACO #	Building Name		Not Eligible	Eligible	Criterion
1275	Workshop Bldg.	1913-1945	X		
1268	Storage Building	1925-1930	X		
1270	Garage	1932	X		
954	Lumber Shed	1942	X		
3368	Function unknown	After 1945	X		
1207	Work Preparation Center (former barn/ward)	Before 1925?	X		
1259	Wheelchair Repair Building	Before 1925	X		
1279	Garage	Before			
1276	Lock Shop	1913 w/ later additions	X		
1290	Shelter	Before 1922-1925	X		

The following buildings and structures are potentially eligible for nomination to the National Register on an individual basis (Table 3) (Figure 161):

1) Superintendent's House (Harriman House), its garage, shed and surrounding grounds: (LACO #1101, #1177 and #1178);
2) Power House Complex (LACO #1300, #1301 and #1302);
3) Administrative Building (LACO #1100);
4) Old Kitchen, Dining, Commissary, and Staff Room Building (LACO # 1262/1263);
5) Casa Consuelo (LACO #1238); and
6) Auditorium Building (LACO #1261)

The remaining buildings do not embody sufficient historic importance or architectural significance to merit nomination to the National Register of Historic Places (Please refer to Table 3 for a list of those buildings, structures and features that are not eligible for designation).

5.6 Determination for Eligibility by the State Historical Resources Commission for listing in the California Register of Historical Resources

(a) For purposes of this section, the term "historical resources" shall include the following:

1.) A resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4850 et seq.).

2.) *A resource included in a local register of historical resources, as defined in section 5020.1(k) of the Public Resources Code or identified as significant in an historical resource survey meeting the requirements section 5024.1(g) of the Public Resources Code, shall be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.*

3.) *Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architecturally, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be an historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4852) including the following:*

a) *Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;*

b) *Is associated with the lives of persons important in our past;*

c) *Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values;* or

d) *Has yielded, or may be likely to yield, information important in prehistory or history.*

The South Campus of Rancho Los Amigos does not retain sufficient integrity to merit placement on the California Register of Historic Resources as an historic district (please refer to

the discussion in Sections 5.3 and 5.4 of this report). However, the following buildings do possess sufficient historic and architectural values to be eligible for placement on the California Register of Historical Resources under Criterion 3c (please refer to Section 5.4 for a discussion of the significance of individual structures) (see Figure 161):

1) Superintendent's House (Harriman House), its garage, shed and its surrounding grounds: (LACO #1101, #1177 and #1178);
2) Power House Complex (LACO #1300, #1301 and #1302);
3) Administrative Building (LACO #1100);
4) Old Kitchen, Dining, Commissary and Staff Room Building (LACO # 1262/ 1263);
5) Casa Consuelo (LACO #1238); and
6) Auditorium Building (LACO #1261)

5.7 Summary Statement of Significance and Recommendations for Further Study

Post/Hazeltine Associates carried out a historic resources study and survey of the South Campus of Rancho Los Amigos in 2002-2003. The study included a survey of the entire South Campus, including its buildings, structures and features. The study also included a re-evaluation of the property's eligibility for nomination as a National Register eligible historic district. The study determined that the property was not eligible for designation as an historic district meeting the criteria established for nomination to the National Register of Historic Places. It should be noted that this determination is at variance with that of a previous survey of the property carried out in 1995 by Historic Resources Group. *Post/Hazeltine Associates* also evaluated the property using the criteria set forth for nomination to the California Register of Historical Resources. The study determined that the property was not eligible for nomination to the California Register of Historical Resources as a historic district. However, five structures were found eligible for designation as individual nominations to the National Register of Historic Places, and the California Register of Historical Resources.

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MAPS

And

FIGURES

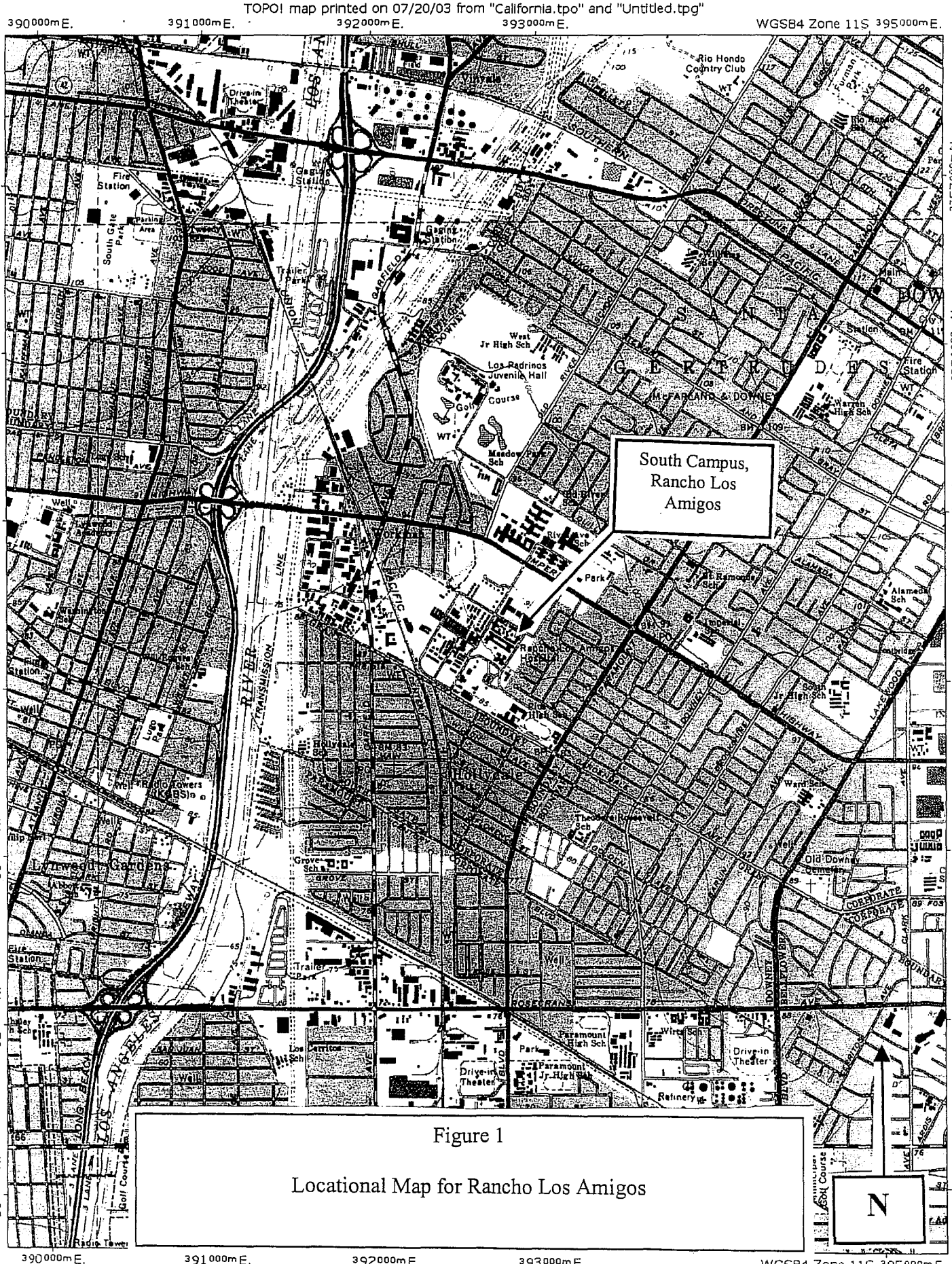


Figure 1

Locational Map for Rancho Los Amigos

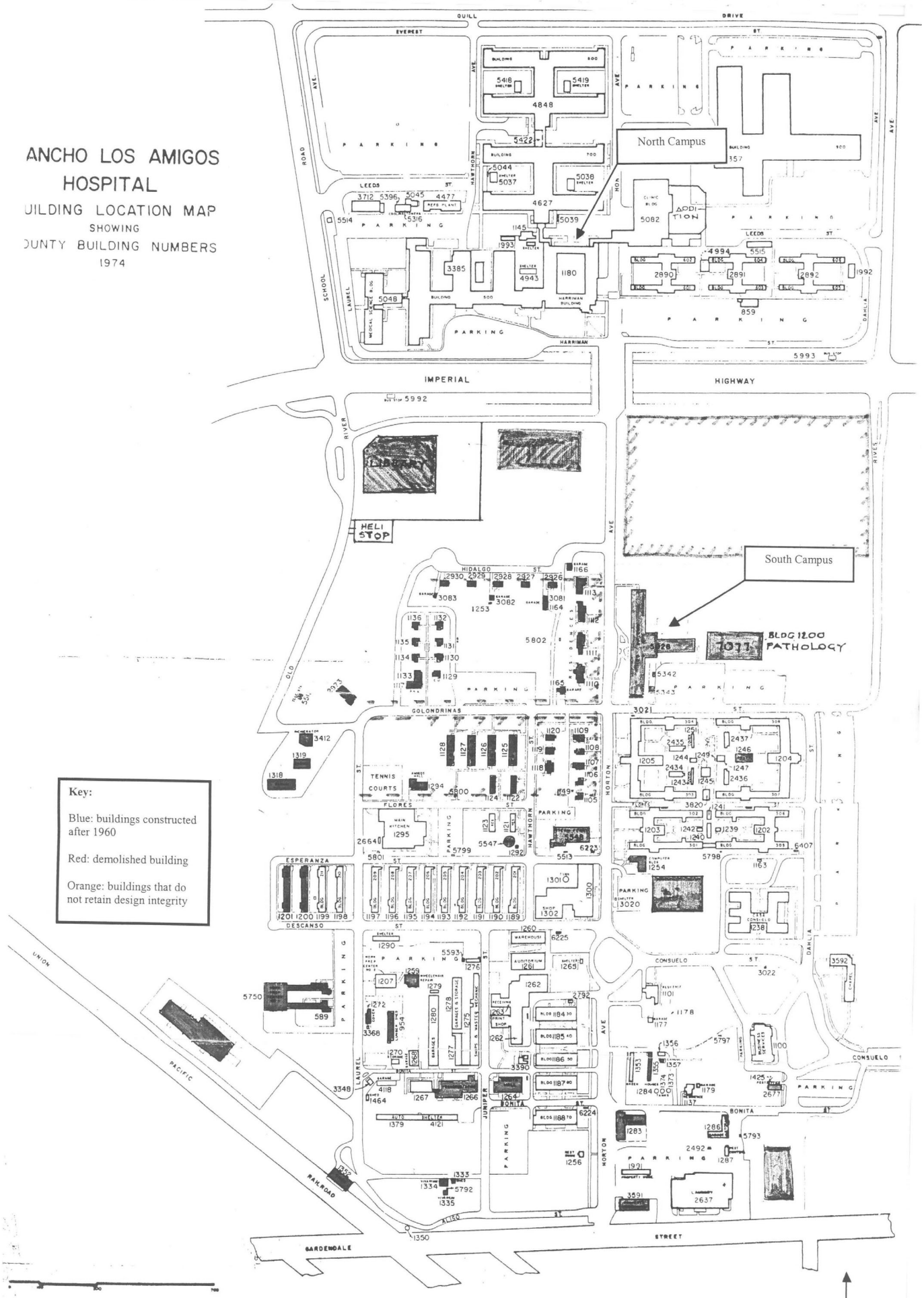


Figure 2

Site Plan for Rancho Los Amigos

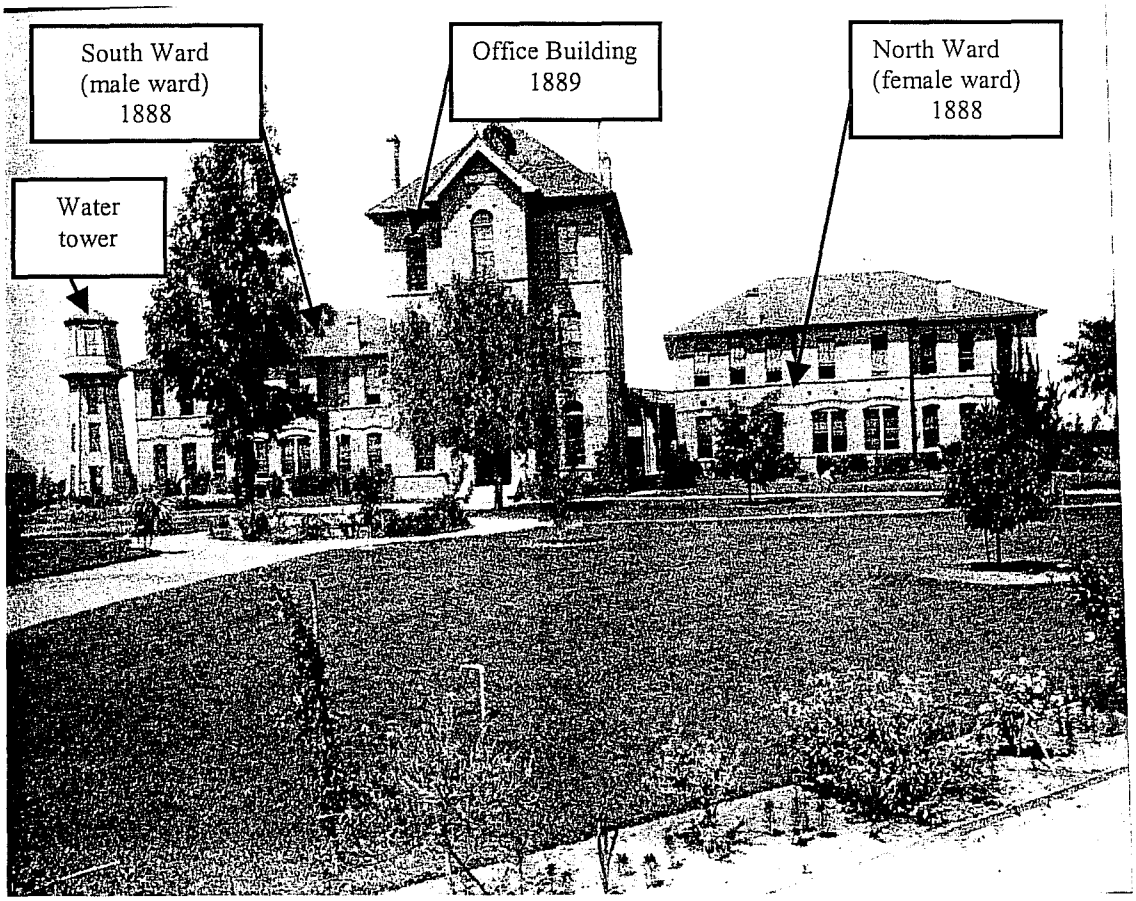


Figure 3
County Poor Farm (Circa 1888)

(Fliedner 1990: 57)

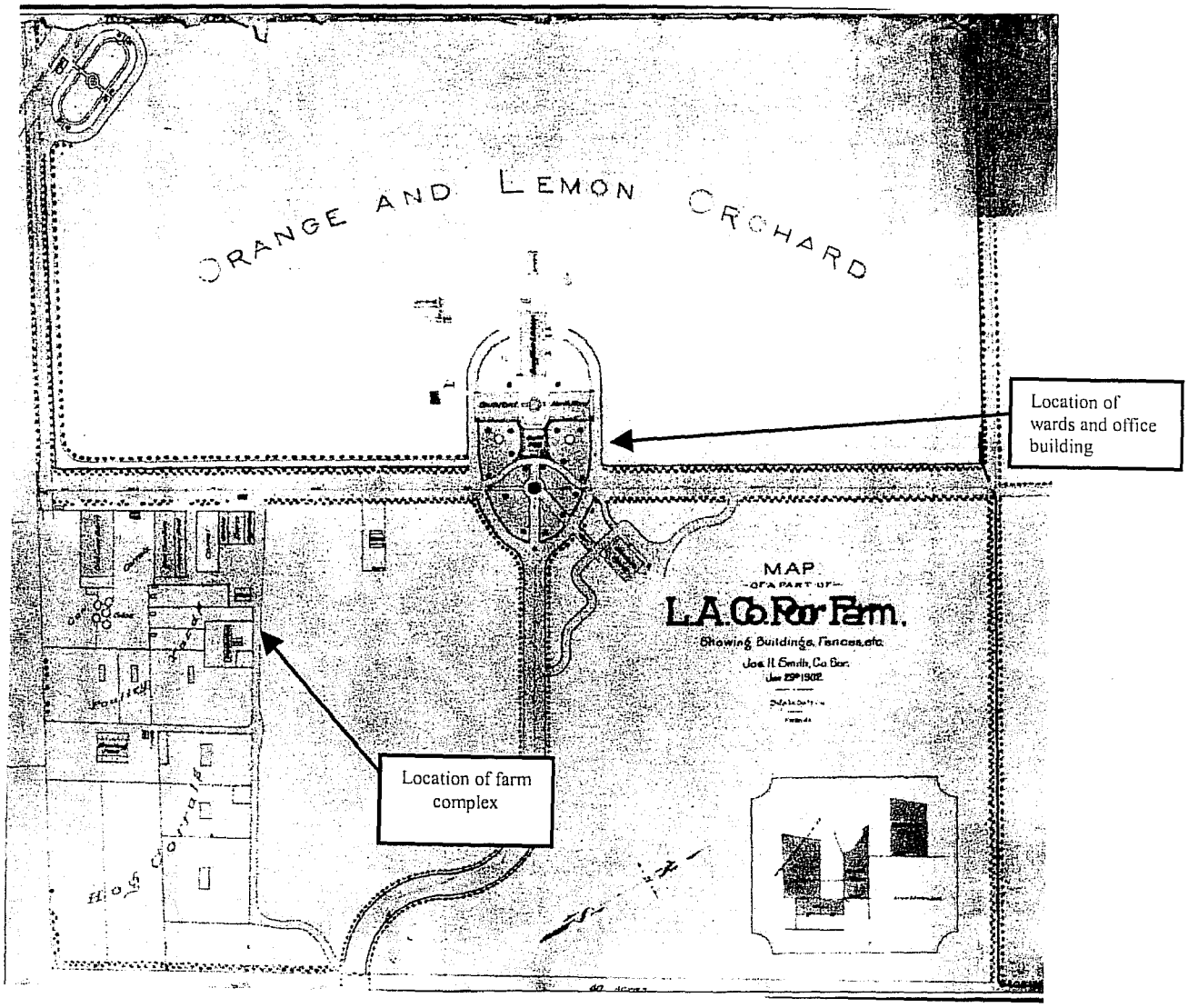


Figure 4
1902 Map of a Part of the L. A. County Poor Farm
(Fliedner 1990: 53)

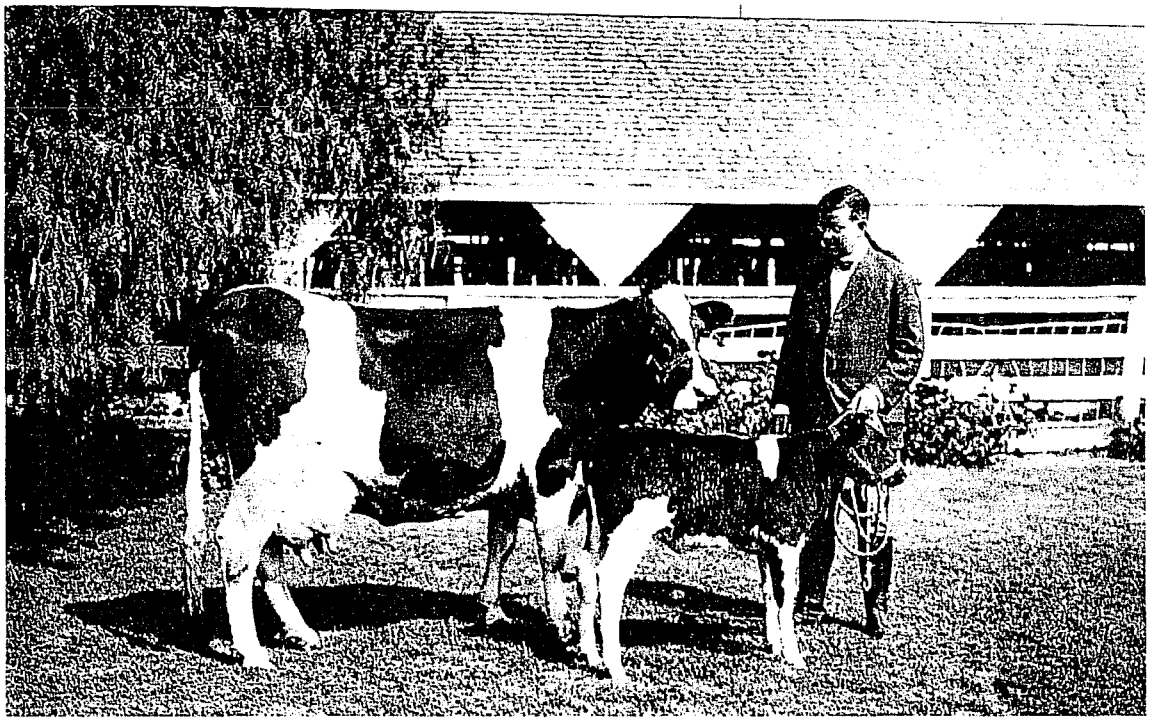


Figure 5
William Harriman at County Farm's dairy complex, circa 1920
(Fliedner 1990: 87)



Figure 6
Photograph of damage caused by the 1933 Long Beach earthquake to two-story stable (Building 1283), built in 1913
(Second-story was been used at the time as a resident ward for male ambulatory patients. The second story was torn down a short time later)

Plot Plan - 1917

A. Original four buildings - 1888

B. Women's Ward - 1897

C. Insane Wards - 1907 - 1917 (305/304)

D. Physician's home - 1907

E. Original chapel - 1907

F. Farm house - 1907

G. Power House - 1909

H. Dining Room & Kitchen - 1910

I. Dairyman's house - 1907

J. Wards I & II (Buildings 30 & 40) - 1913

K. Steel water tower and tank - 1913

L. New Dining Room & Kitchen - 1913

M. New stable - 1913

N. Harriman House - 1915

O. Women's Ward Addition (Proposed completion - 1920s)

P. General Utilities

Q. Employee bungalows

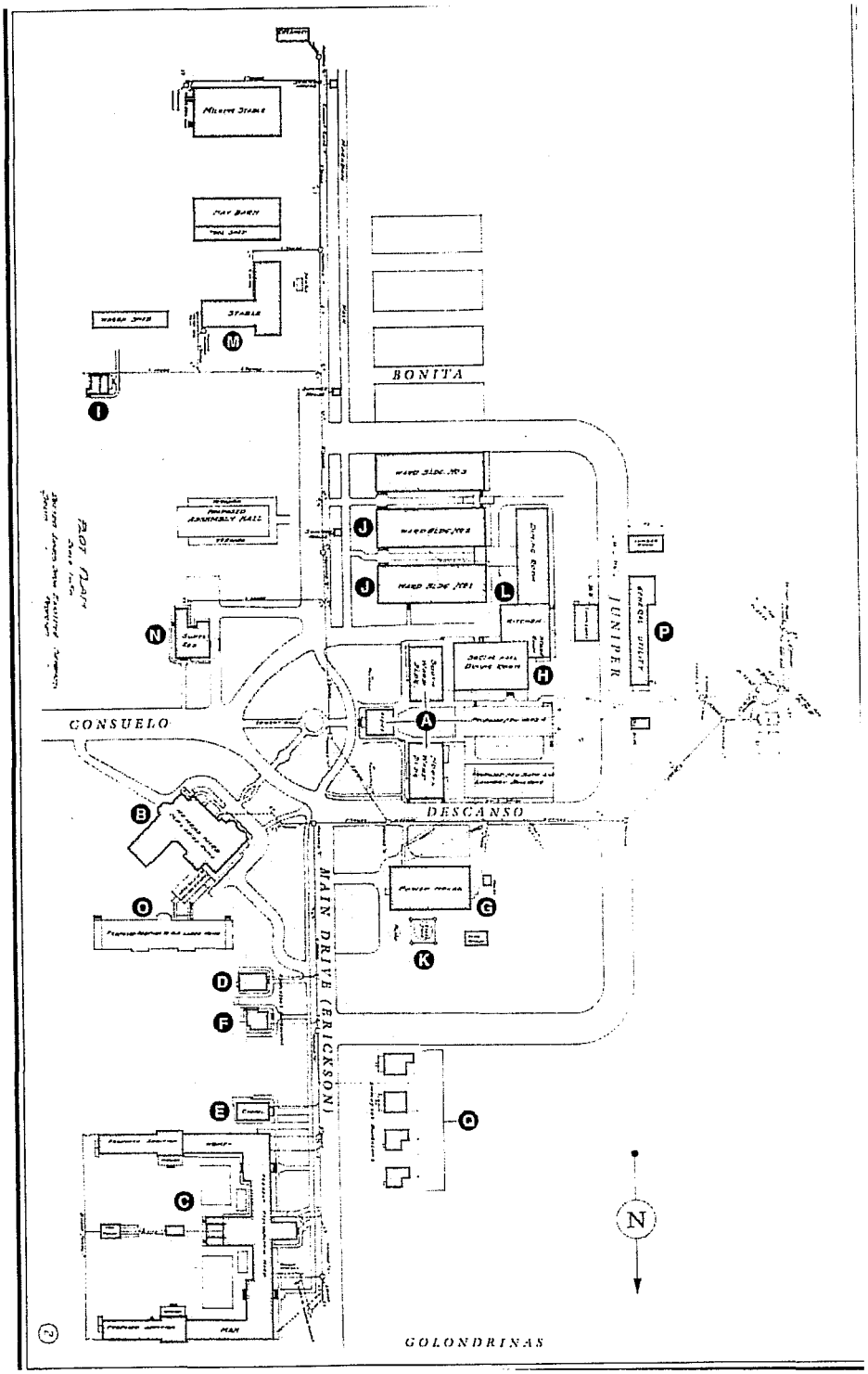


Figure 7
Plot Map of the County Farm, 1917
(Fliedner 1990: 70)



Figure 8
Photograph of some of the bedridden patients in front of the
"temporary" infirmary wards, circa 1923
(Fliedner 1990: 104)



Figure 9
View of infirmary wards, photograph taken in 1929
(Fliedner 1990: 119)



Figure 10
Occupational Therapy Building (built 1929)
(Fliedner 1990: 139)

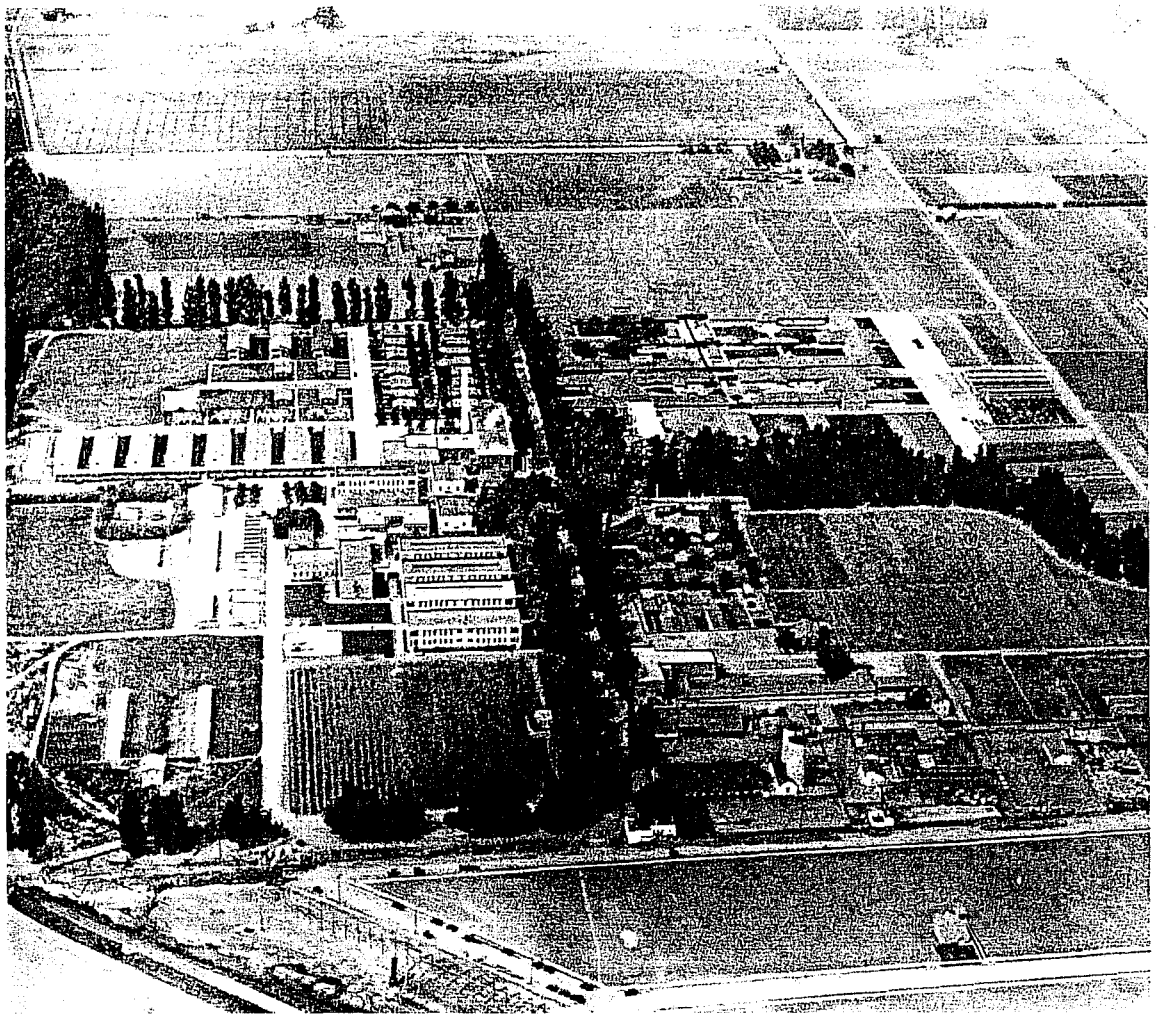


Figure 11
Aerial photograph of the County Farm.
Photograph taken May 24, 1926
(Fliedner 1990: 109)

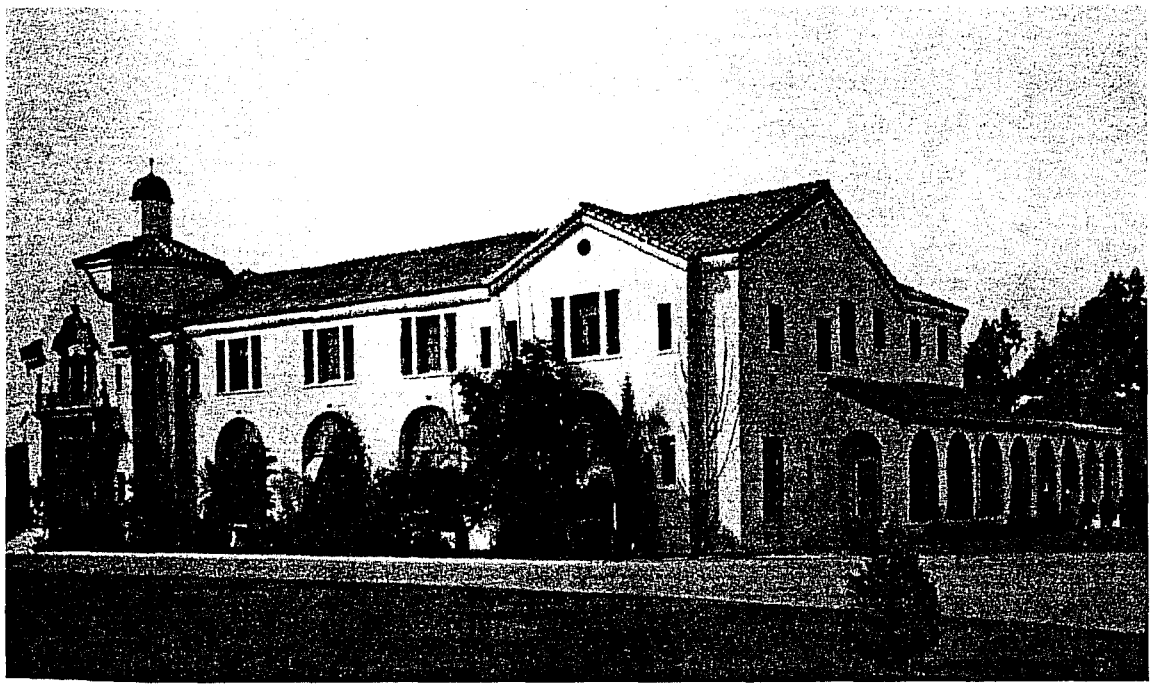


Figure 12
Administration Building (built 1927)
(Fliedner 1990: 143)



Figure 13
Service Building (built 1926 – 27)
(Main kitchen and employee dining room)
(Fliedner 1990: 144)



Figure 14
The Auditorium, built 1928
(Fliedner 1990: 147)

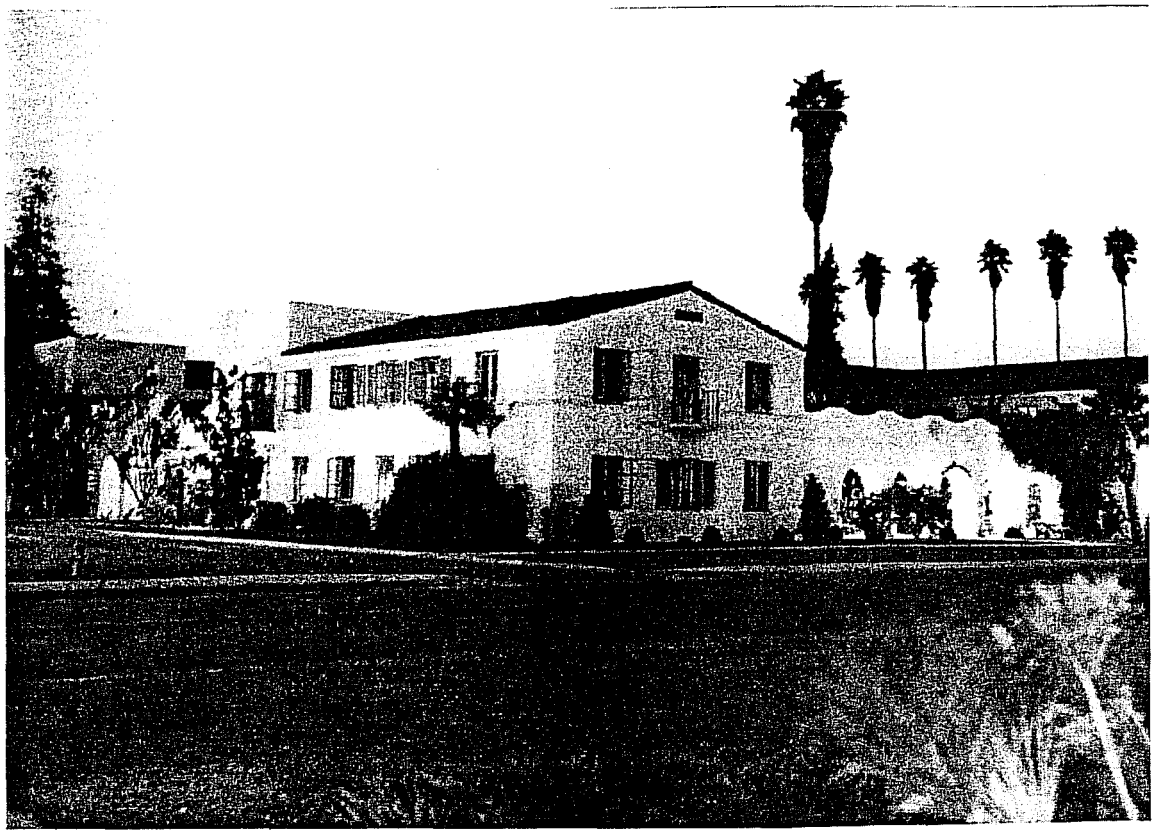


Figure 15
Casa Consuelo (Women's Ward), built 1928-1930
(Fliedner 1990: 149)

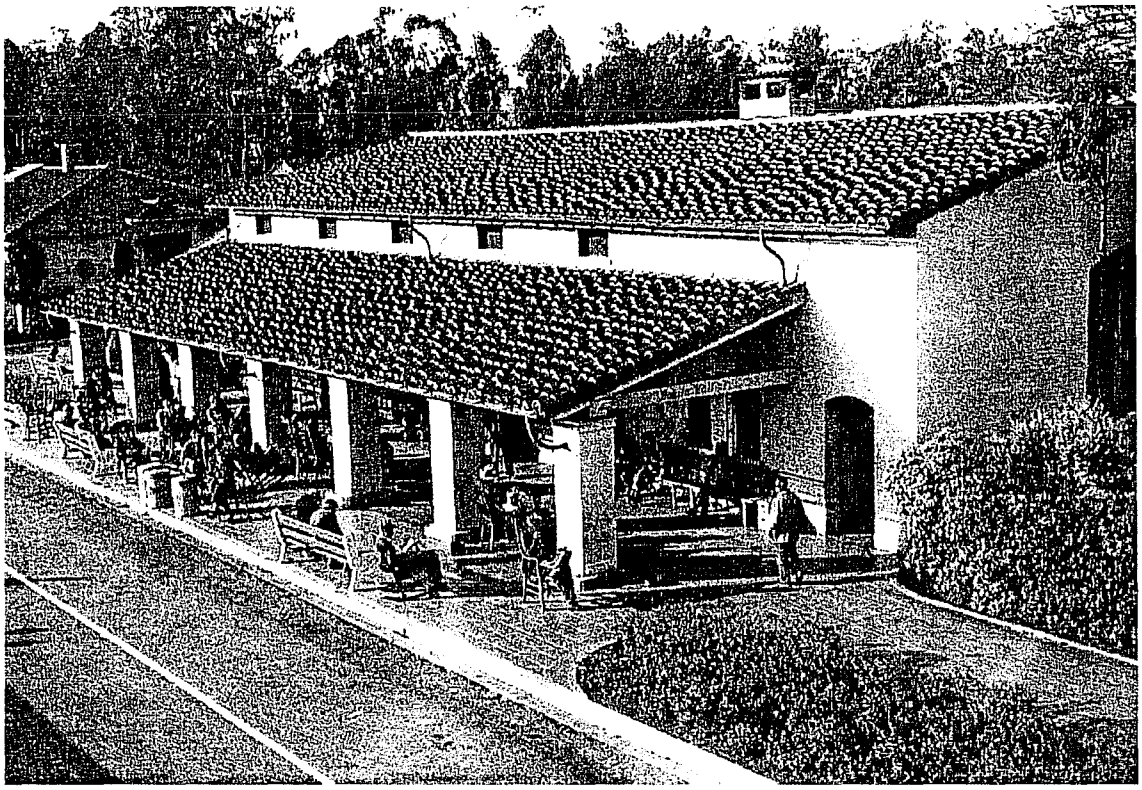


Figure 16
Bonita Hall, built 1932
(Fliedner 119: 178)

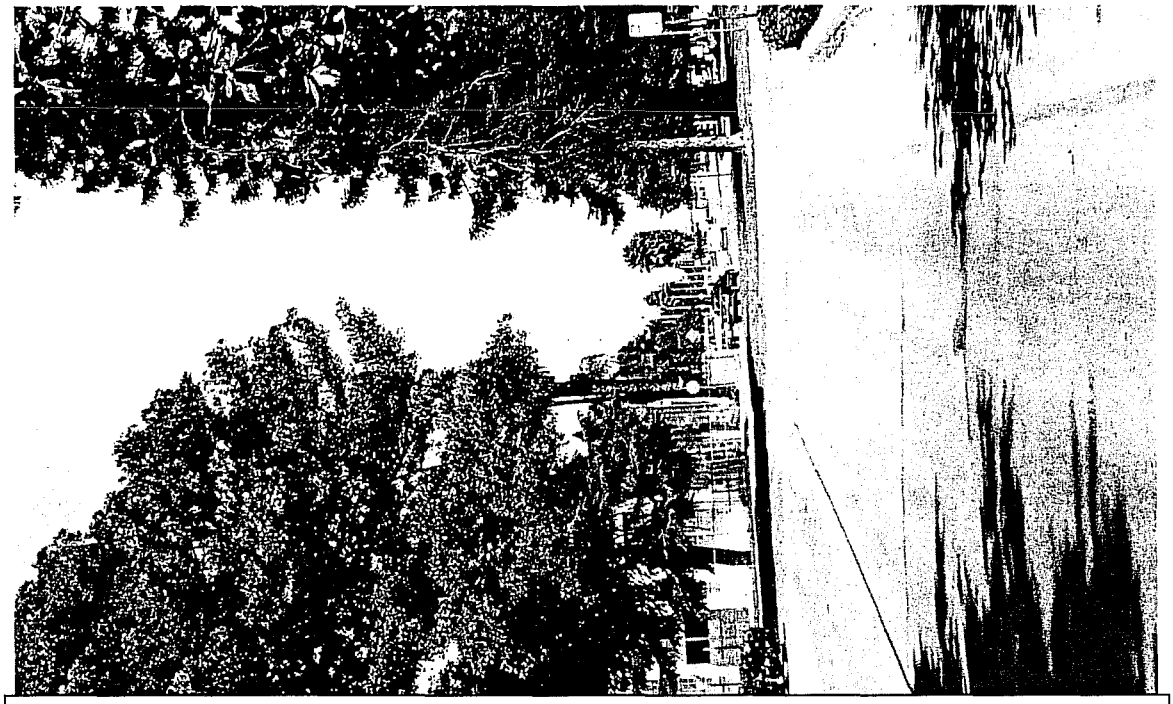


Figure 17

Looking towards the North Campus of Rancho Los Amigos

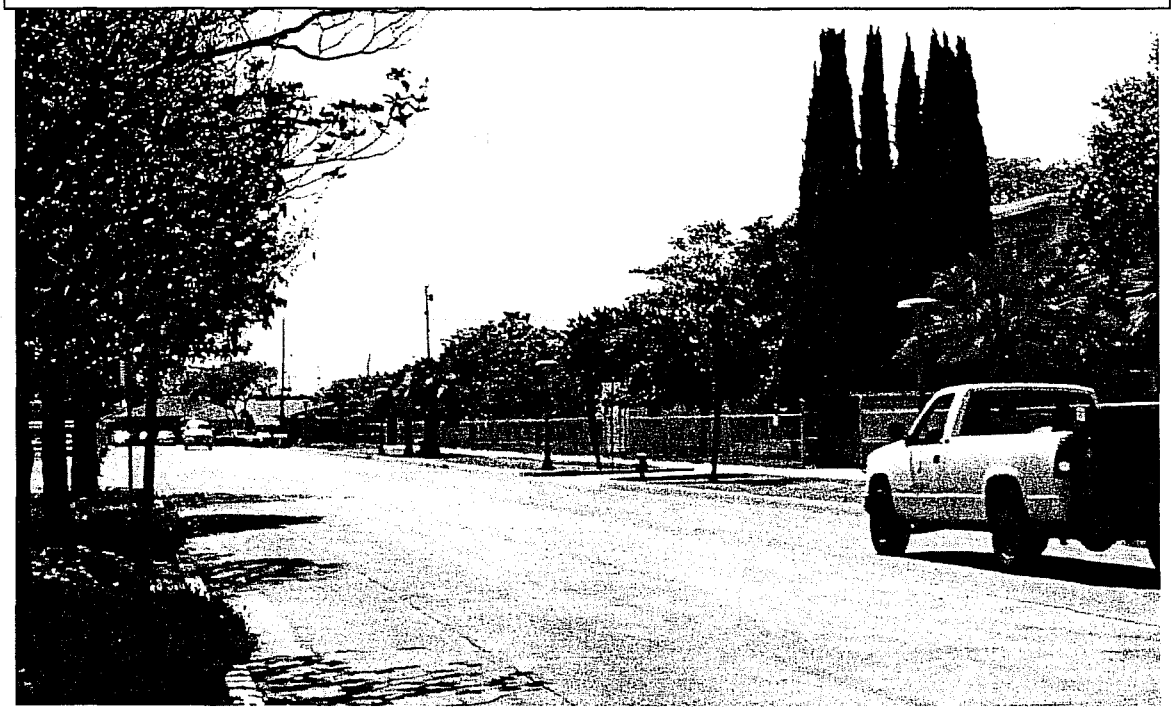


Figure 18

Looking south towards Gardendale Street



Figure 19
Buildings 1121 and 1123
North Elevation
(looking southeast)

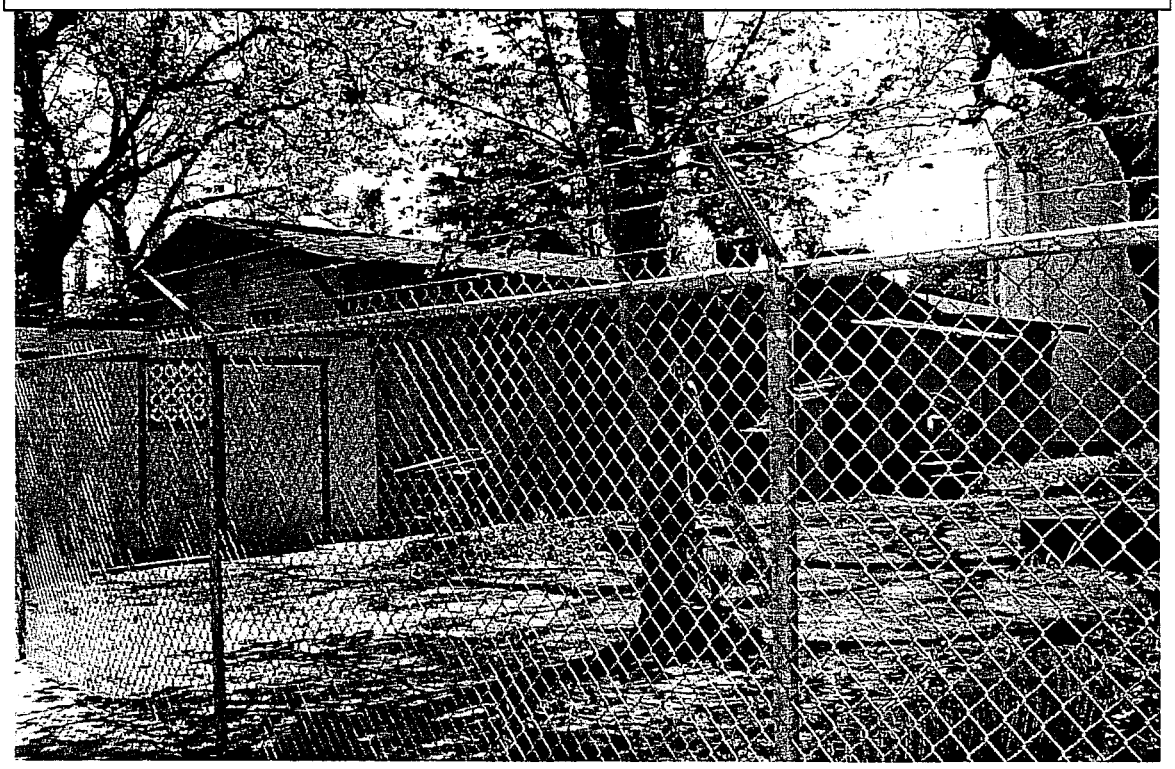


Figure 20
Building 1123
West Elevation
(looking east)

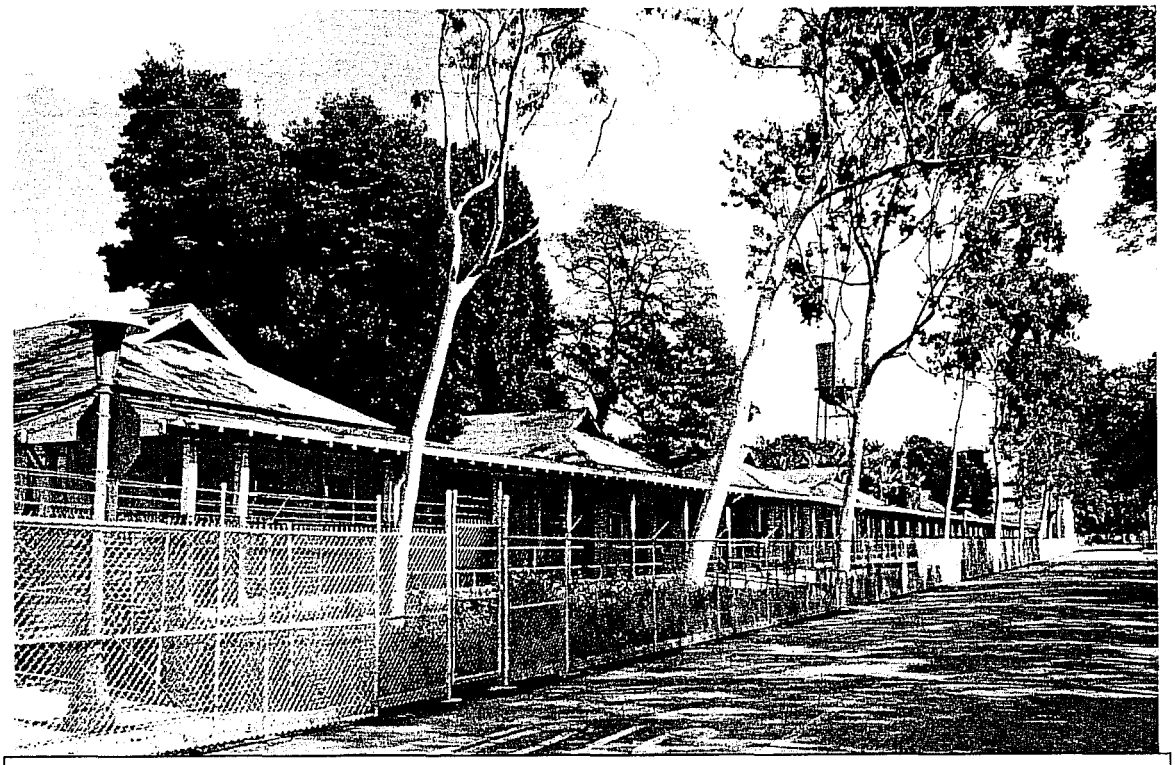


Figure 21
South Elevation of Wards 1189-1197

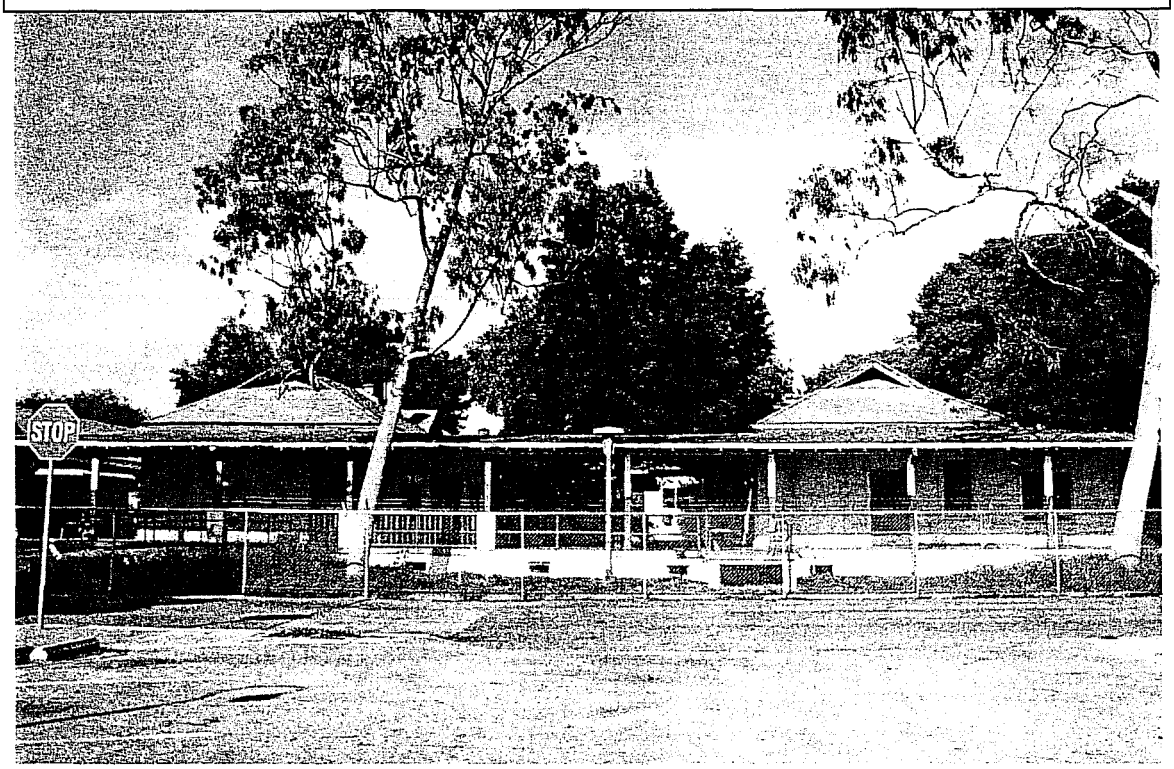


Figure 22
South elevation of Wards 1190-1191



Figure 23
South Elevation of Building 1189



Figure 24
Buildings 1198 and 1199 (south elevation)
(General Ward Buildings)
(looking northwest)

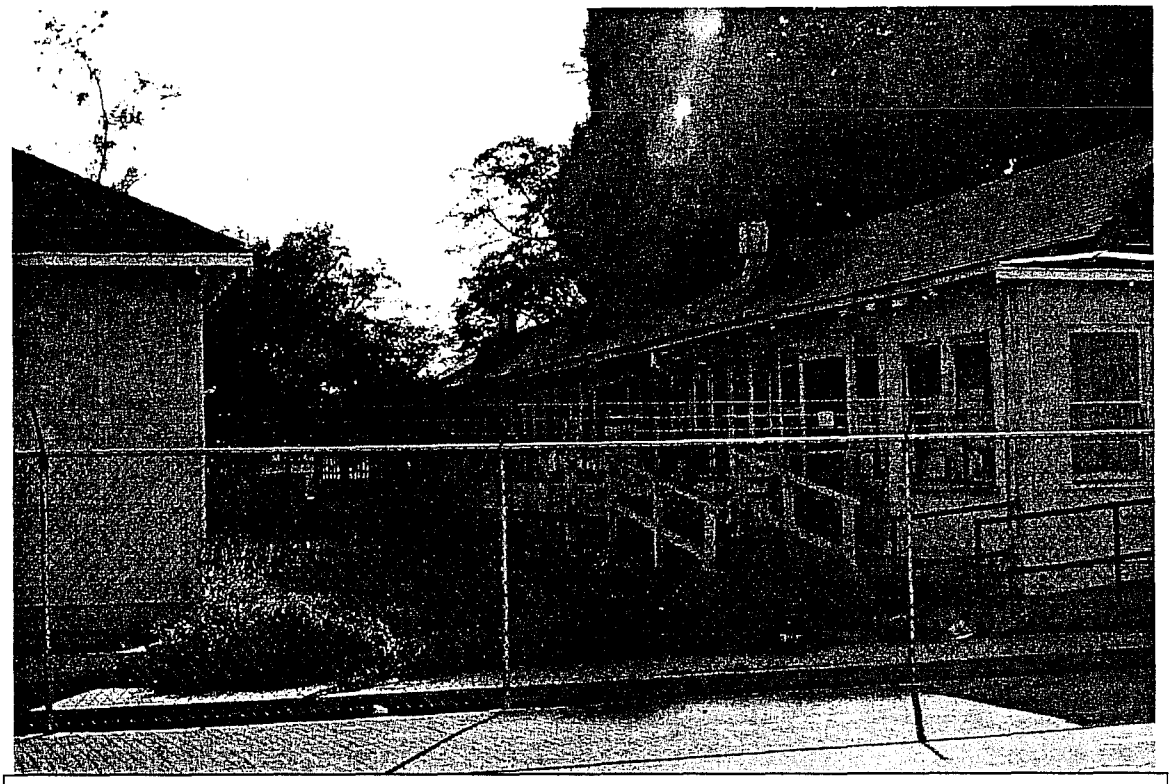


Figure 25
Building1201
East Elevation (looking nw)

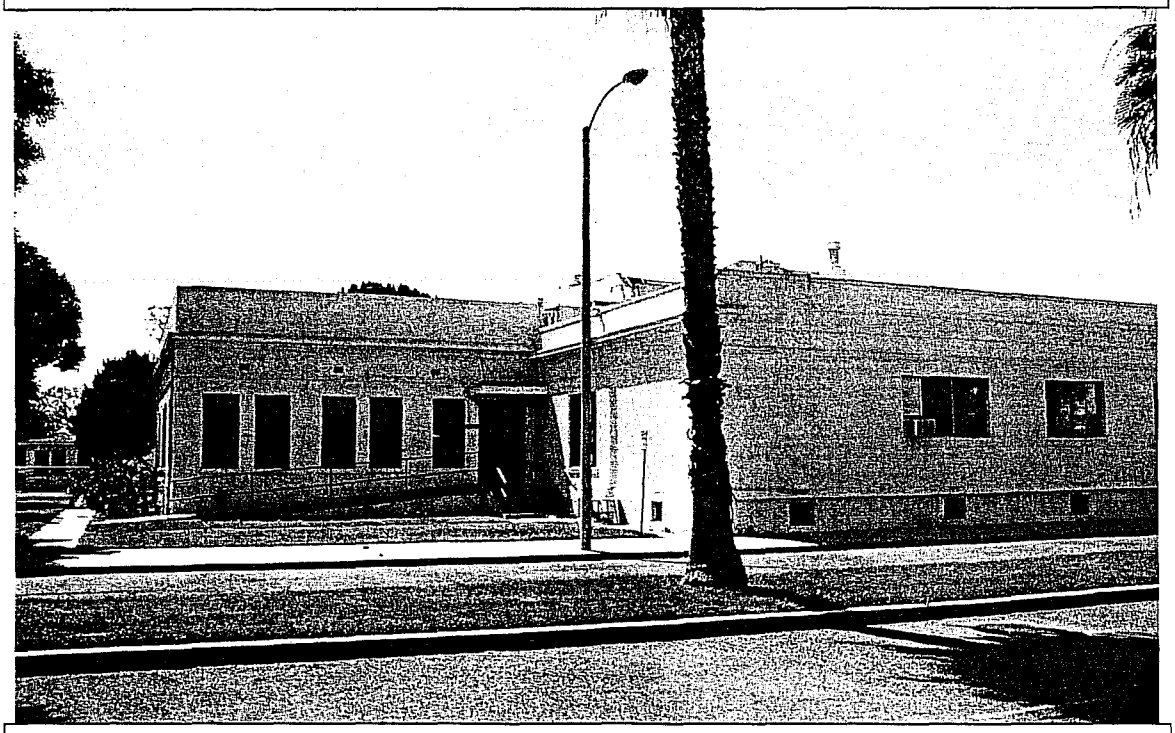


Figure 26
Building 1295
North Elevation
(looking south)



Figure 27
Building 1295
East Elevation (in circa 1930)



Figure 28
Building 1295
North Elevation
(looking southeast)

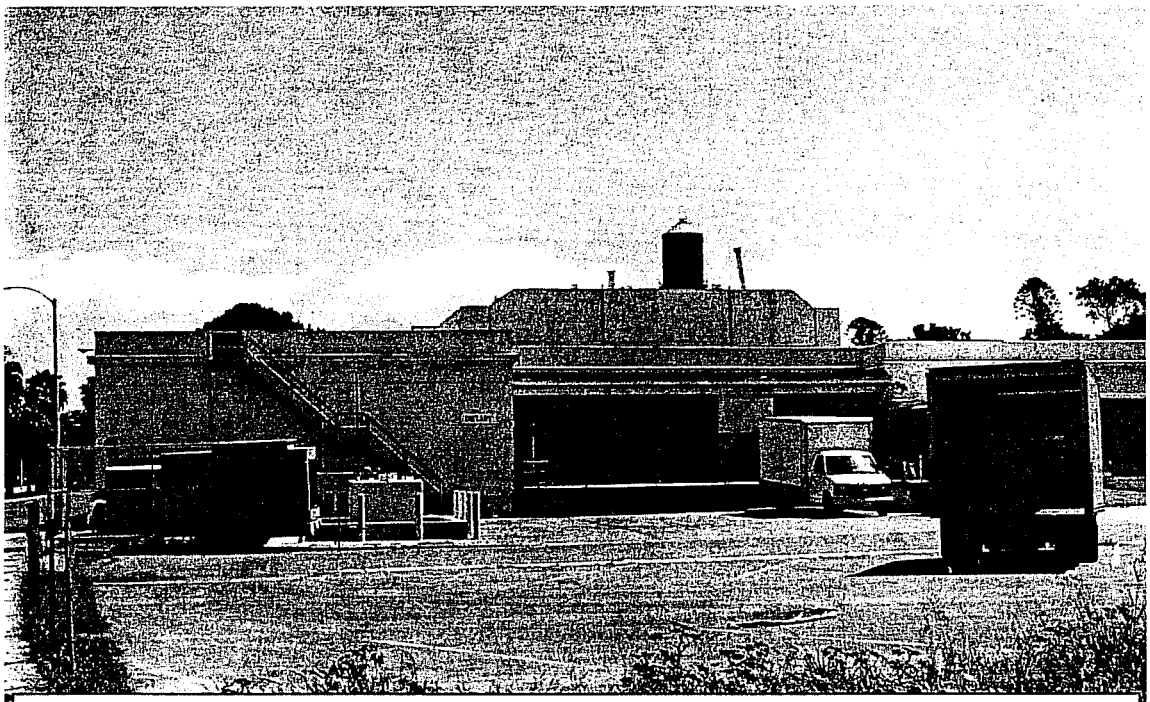


Figure 29
Building 1295
West Elevation (looking South)

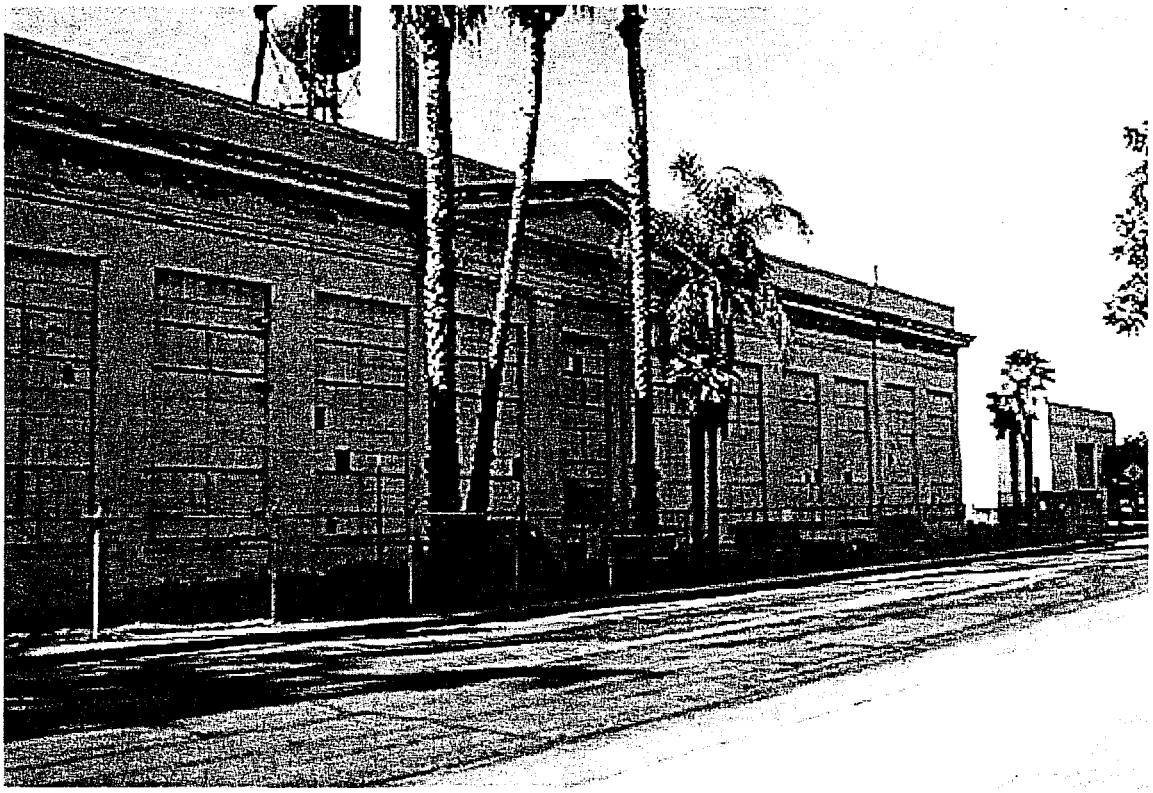


Figure 30
Building 1300 (Power Plant)
East Elevation (looking northwest)

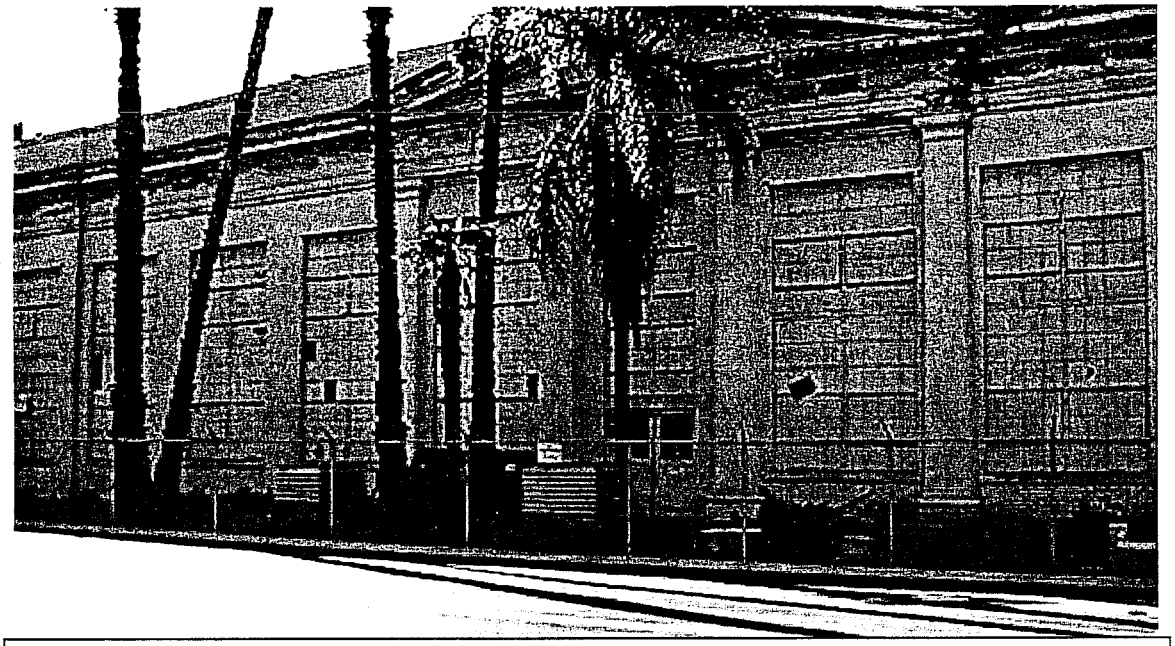


Figure 31
Building 1300 (Power Plant)
East Elevation (central section)
(looking west)



Figure 32
Building 1300 (Power Plant)
South Elevation (east end)
(looking north)



Figure 33
Buildings 1300, 1301, 1302 (Power Plant)
Central section of South Elevation
(looking north)

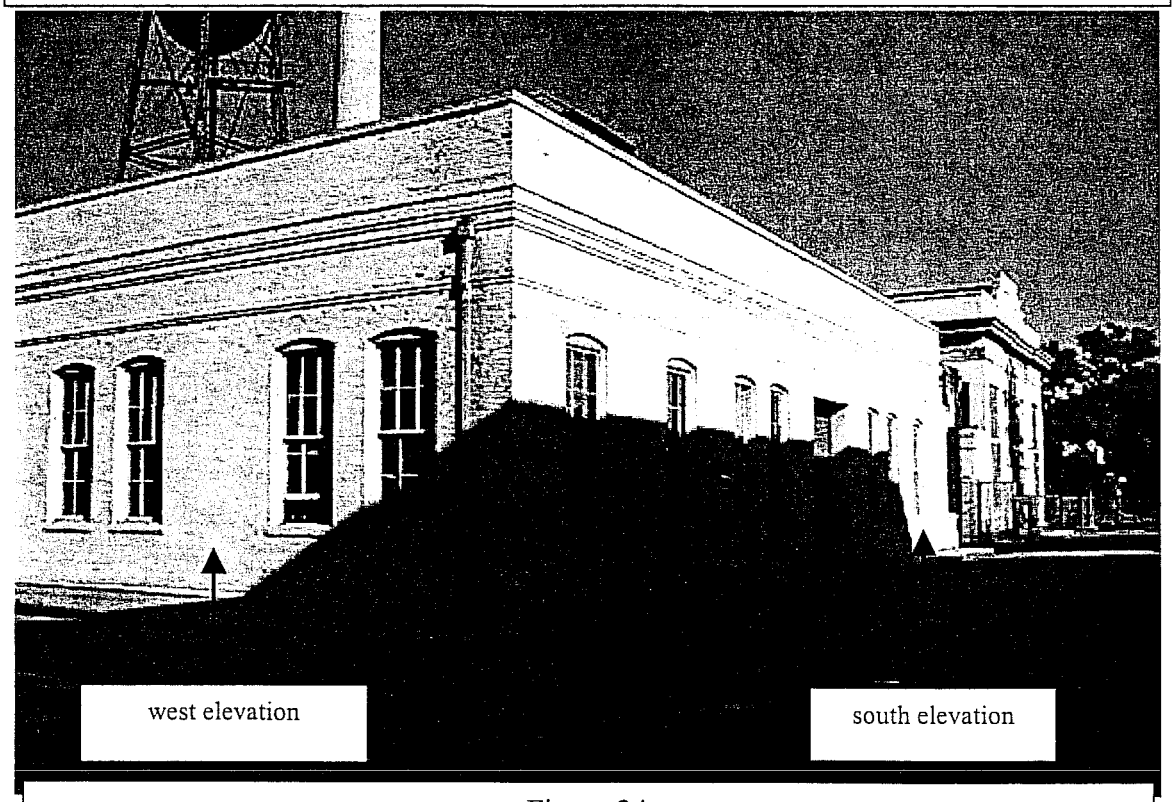


Figure 34
Buildings 1300, 1301 and 1302
South and West Elevations
(Looking northeast)

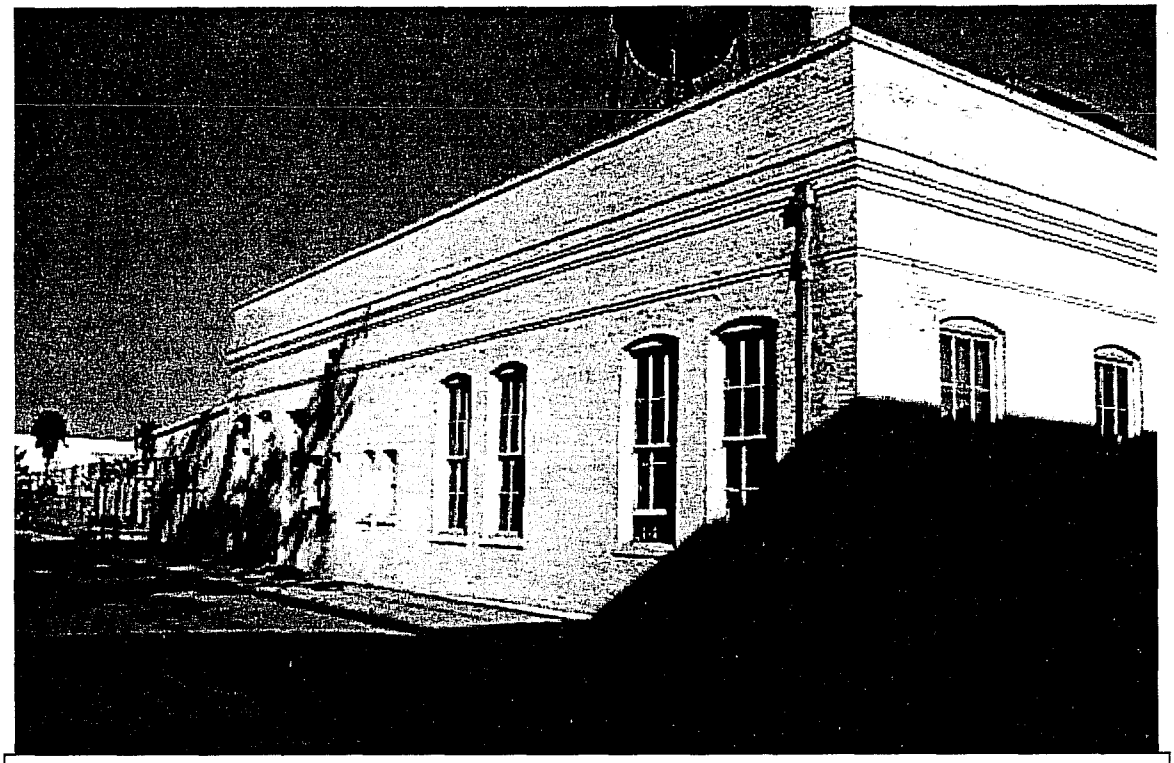


Figure 35
Building 1302 (former laundry)
West Elevation
(looking northeast)

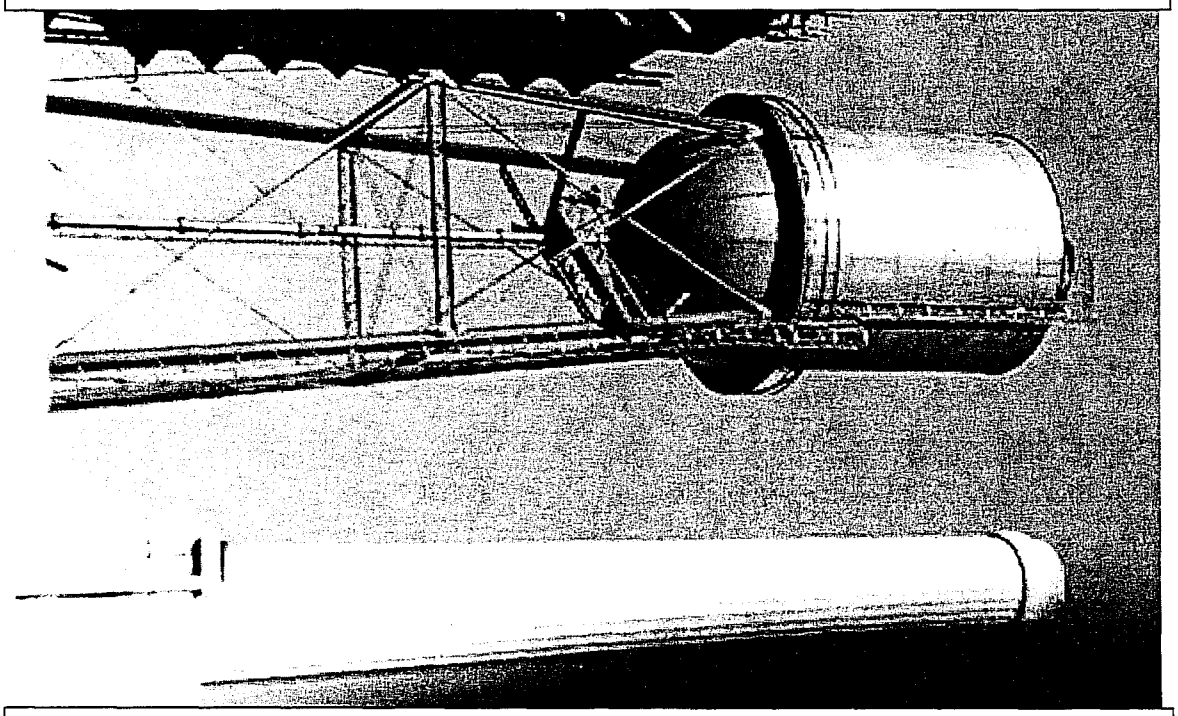


Figure 36
Building 1301
Water tower and chimney
(looking east)

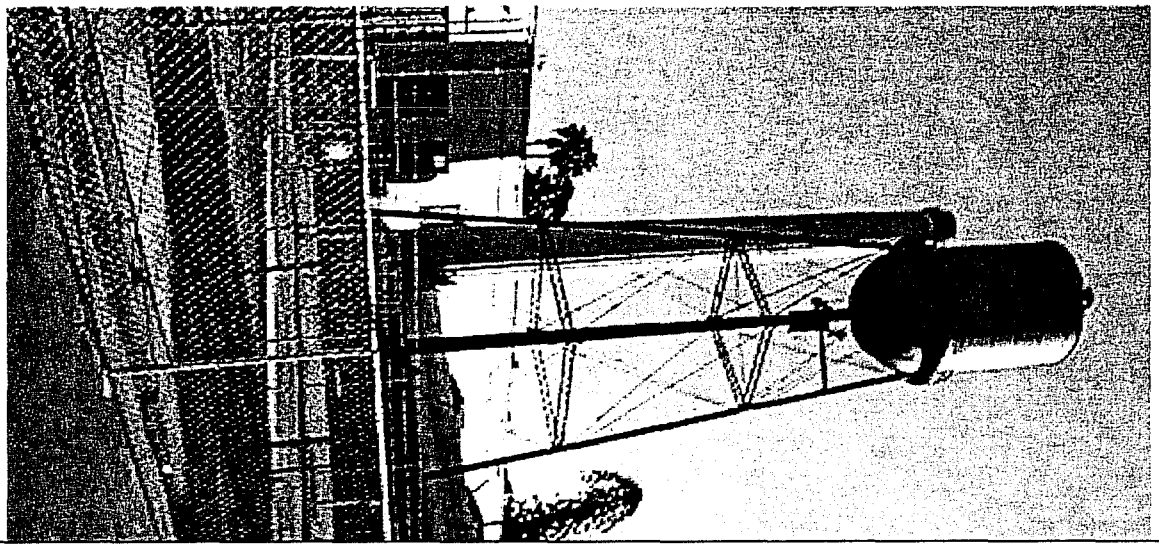


Figure 37
Building 1300 and 1301
Rear elevation of 1926 Power Plant
(looking southeast)

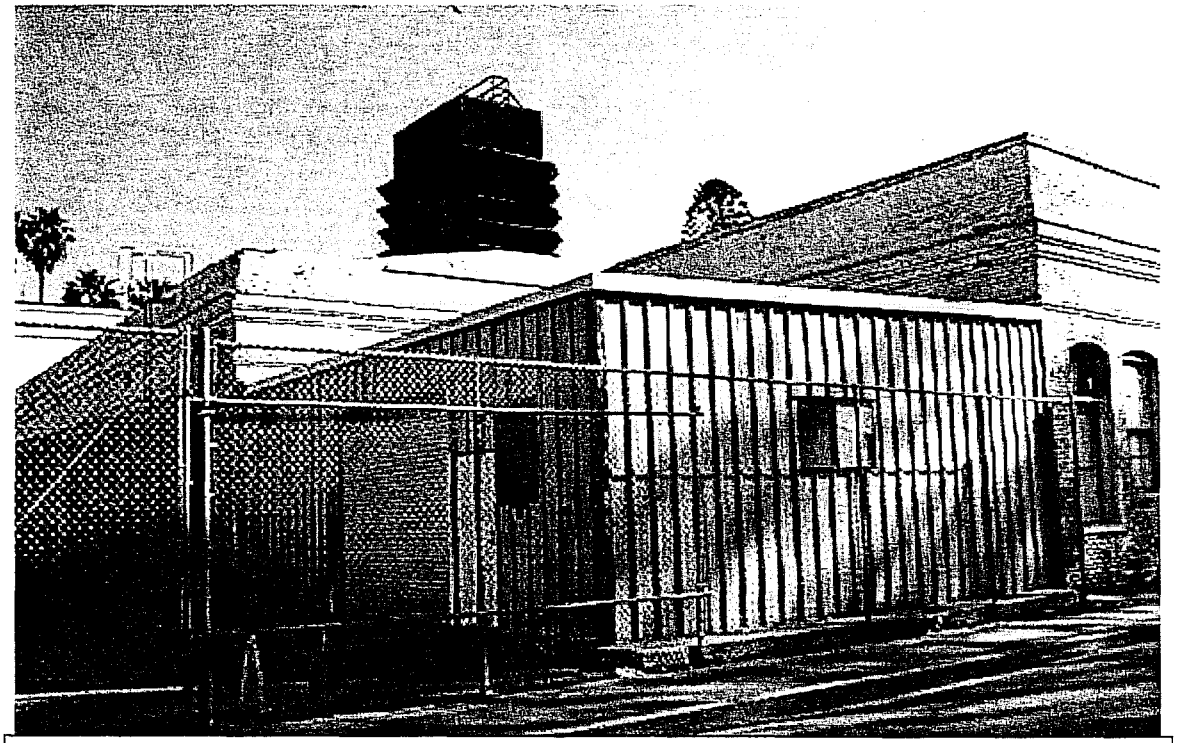


Figure 38
Building 1302
Northwest corner of Power Plant building
(looking southeast)

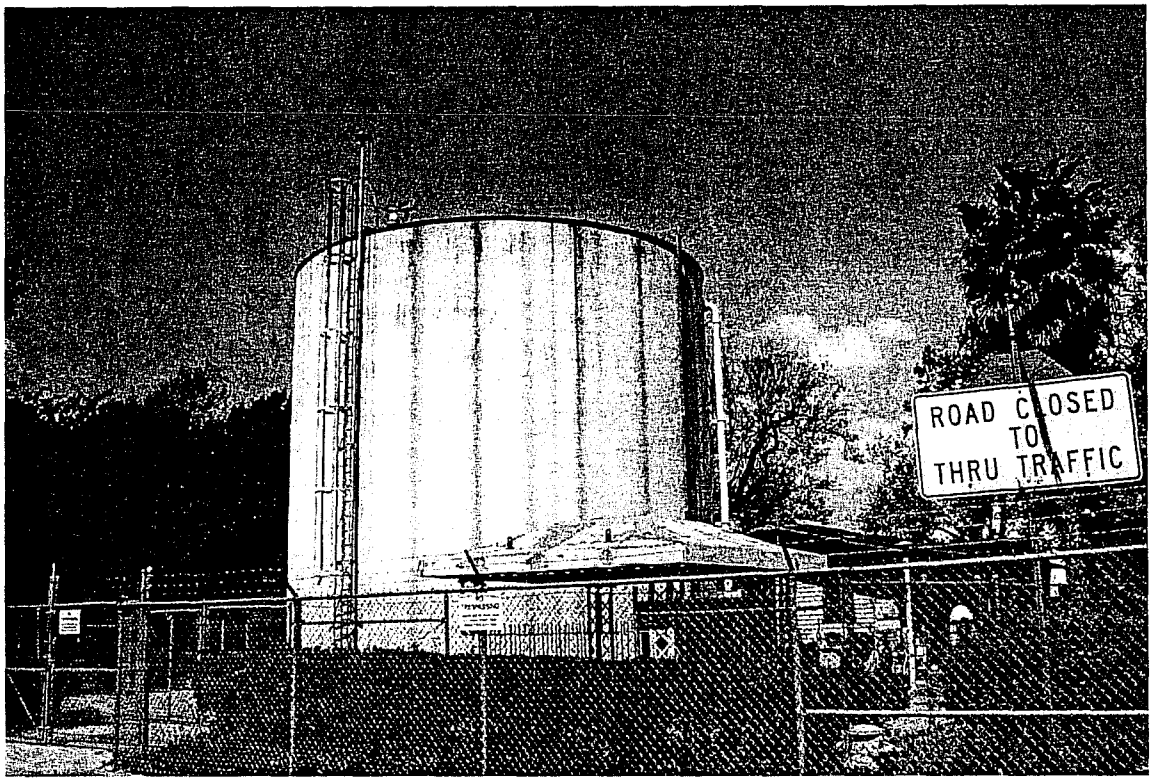


Figure 39
Building 5547
Metal tank
(looking north)

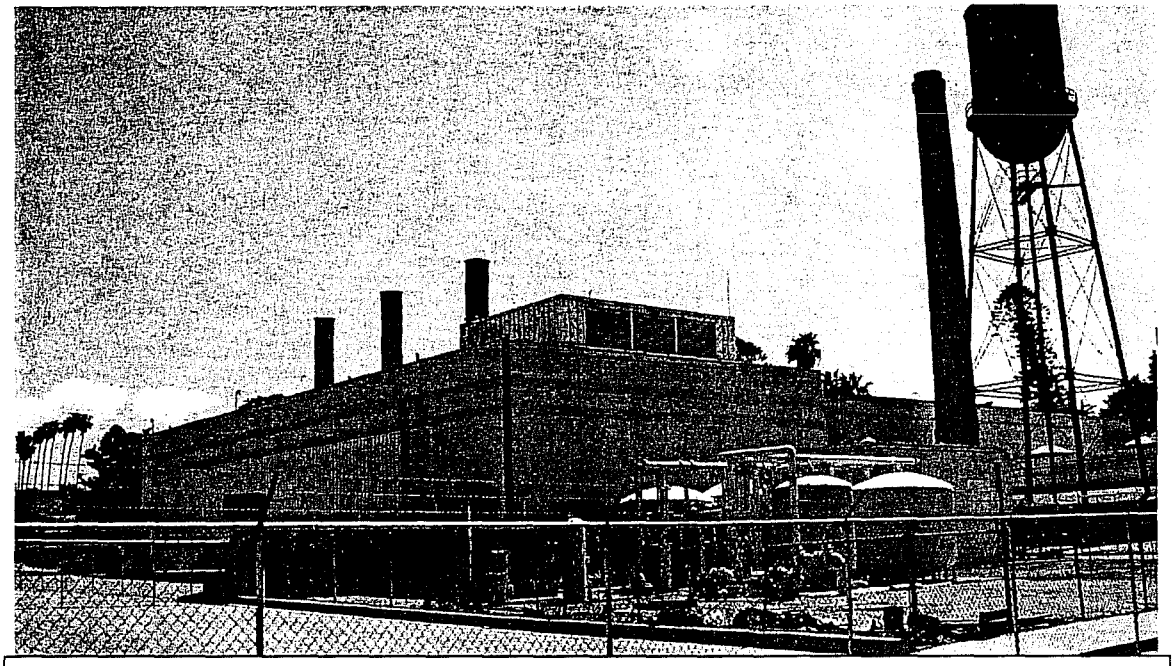


Figure 40
Building 5548
1966 Power Plant
North and west elevations

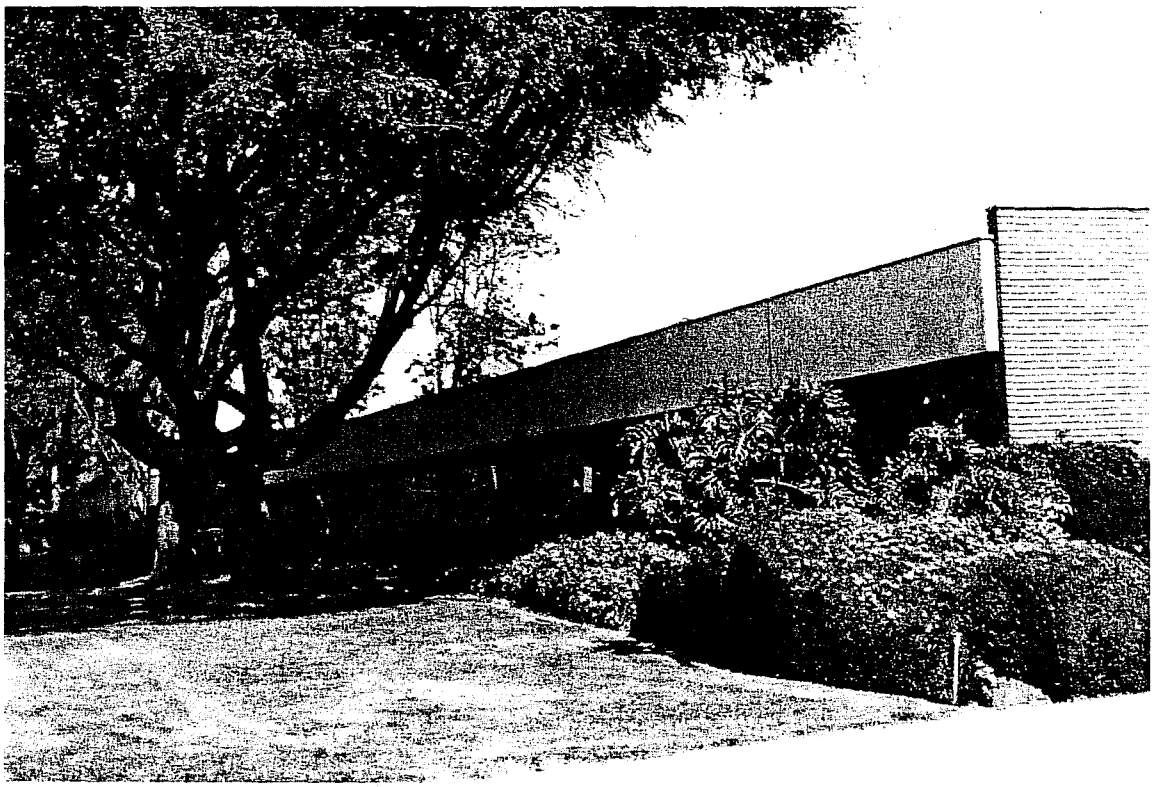


Figure 41
Building 5028
General Ward
(looking northeast)



Figure 42
Building 1205
Men's Psychopathic Ward
West elevation (central section)
(looking south)

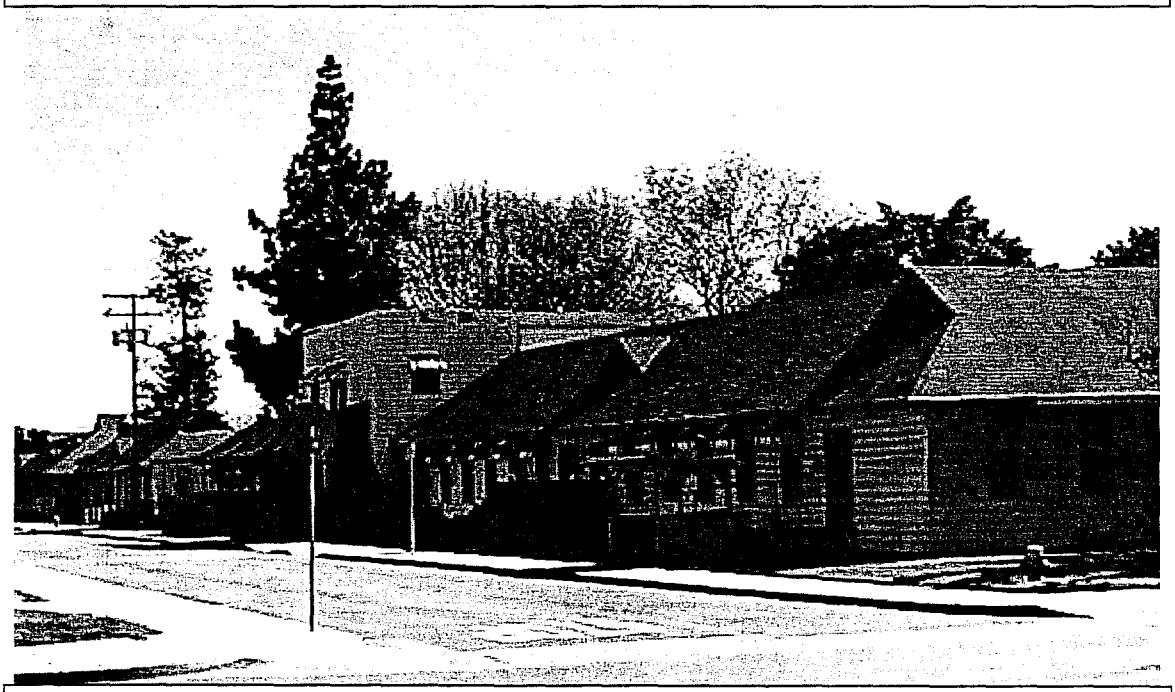


Figure 43
Building 1205
Men's Psychopathic Ward
North Elevation
(looking southeast)



Figure 44
Building 1204 (Men's Psychopathic Ward)
East Elevation
(looking northwest)



Figure 45
Building 1205/1204 (Men's Psychopathic Ward)
South Elevation
(looking northeast)



Figure 46
Building 1205
Interior Courtyard (west elevation)
(looking west)

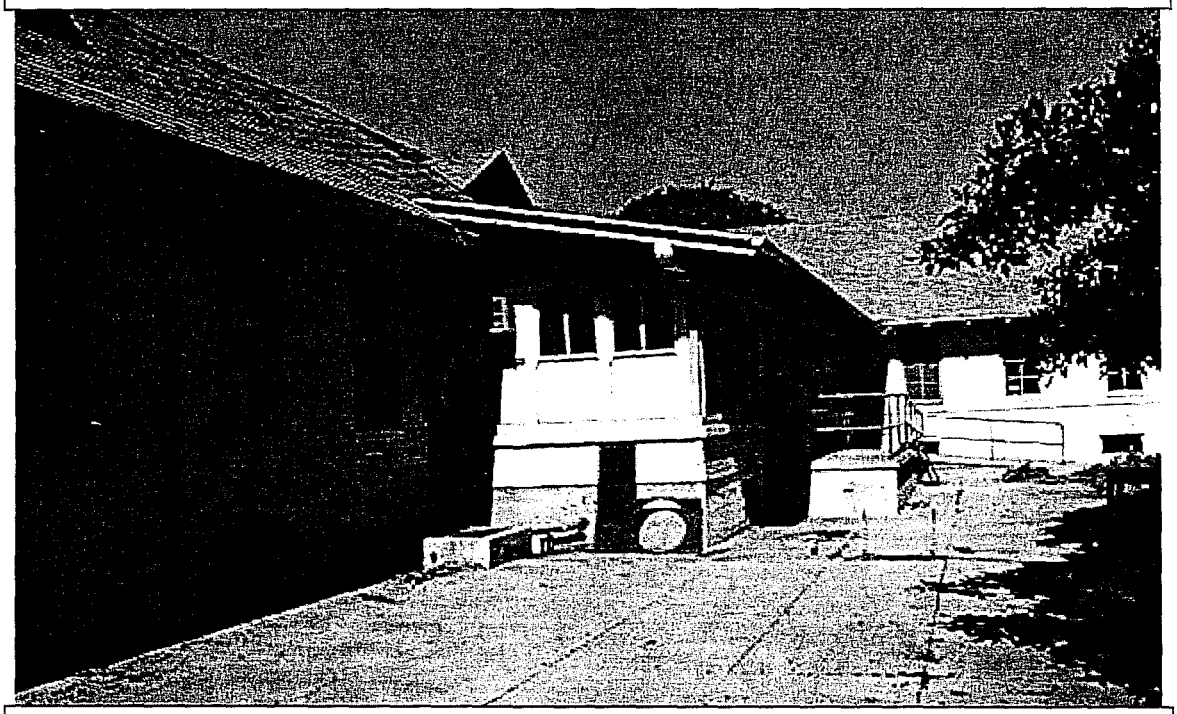


Figure 47
Building 1205
Interior Courtyard, northwest corner
(looking west)



Figure 48
Interior Courtyard of Men's Psychopathic Ward
(looking southeast)

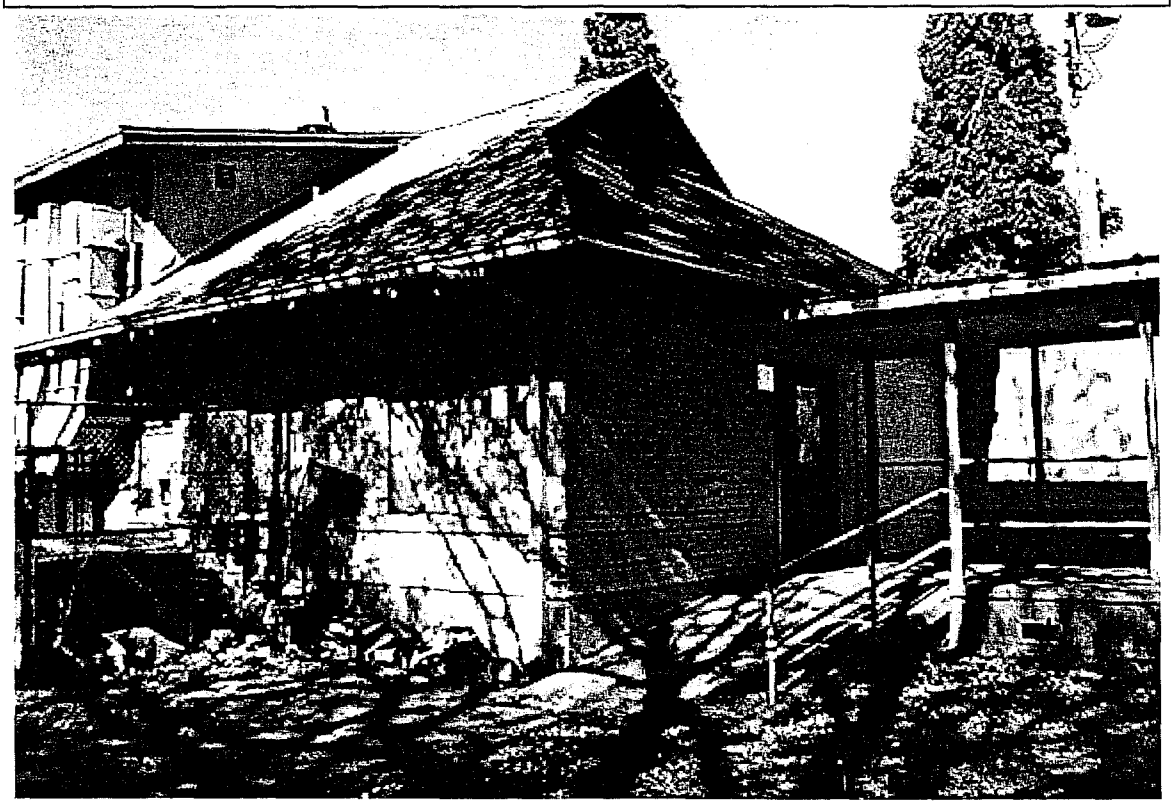


Figure 49
Interior Courtyard of Men's Psychopathic Ward
East Wing of Building 1205

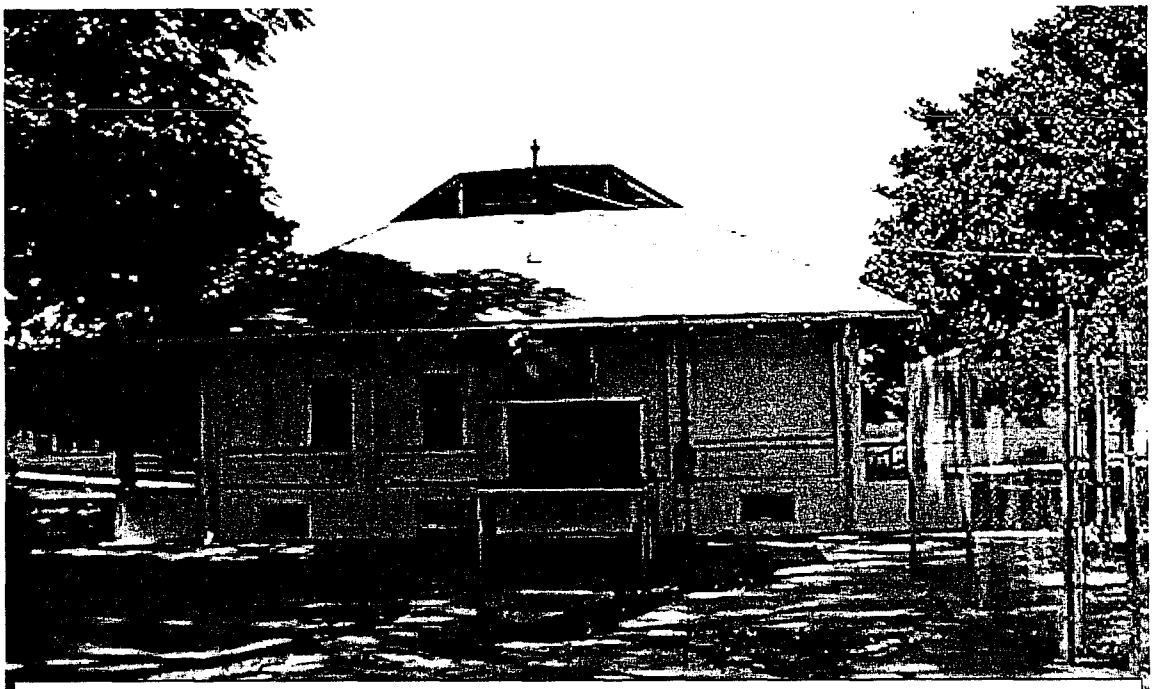


Figure 50
Interior Courtyard of Men's Psychopathic Ward
Building 1205
(looking west)

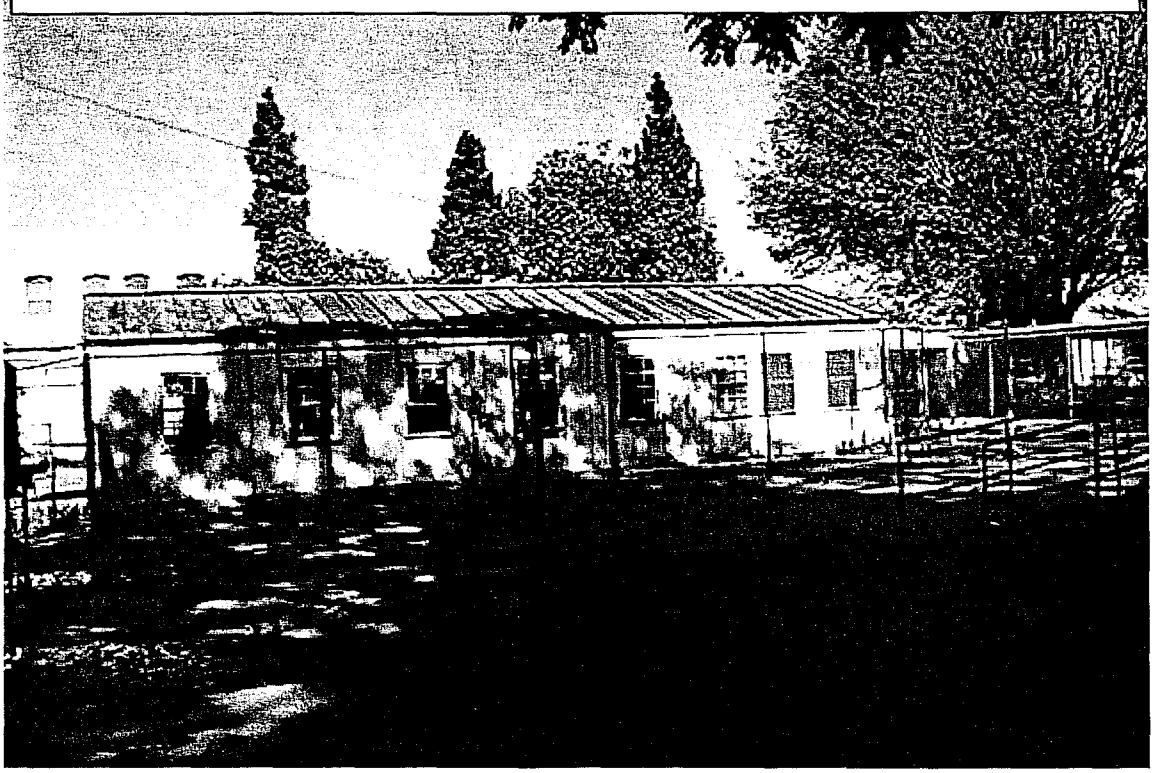


Figure 51
Courtyard of Men's Psychopathic Ward
Building 2434
(looking north)

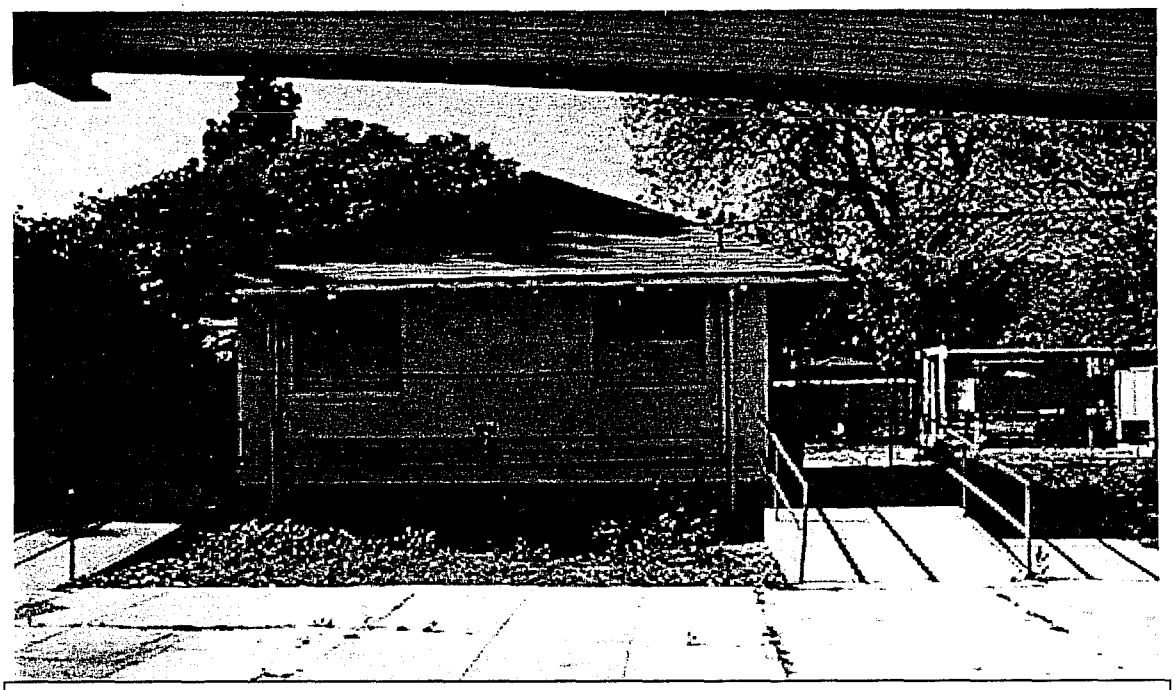


Figure 52
Building 1204/1205
Interior Courtyard of Men's Pyschopathic Ward
Looking West (Building 1247)

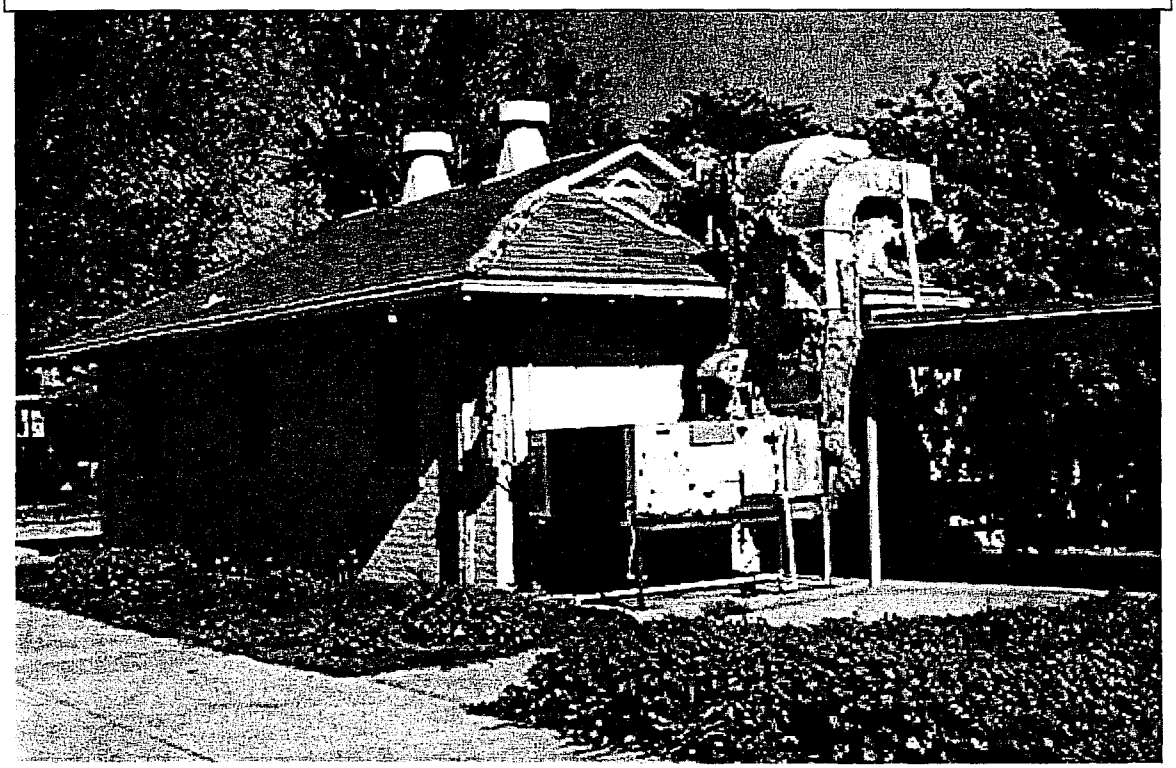


Figure 53
Men's Psychopathic Ward
Building 1245 (looking north)

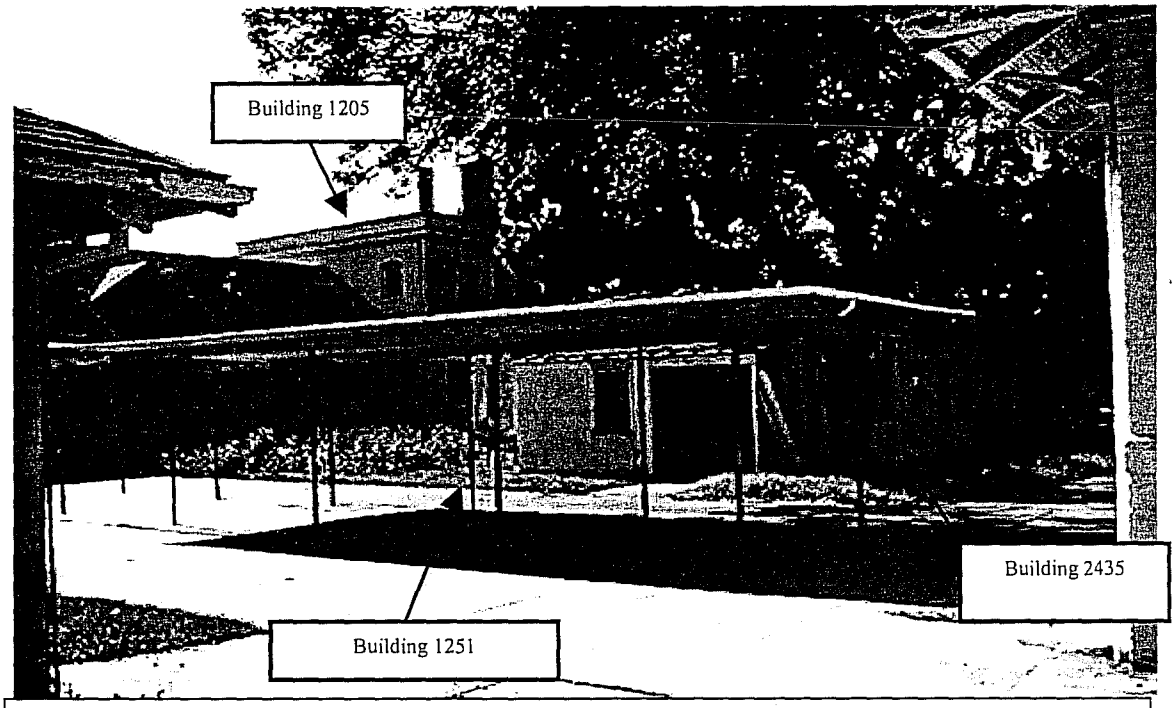


Figure 54
Men's Psychopathic Ward, interior courtyard
Building 2435 (foreground) and Building 2435 (Bacground)
(looking west towards Building 1205)

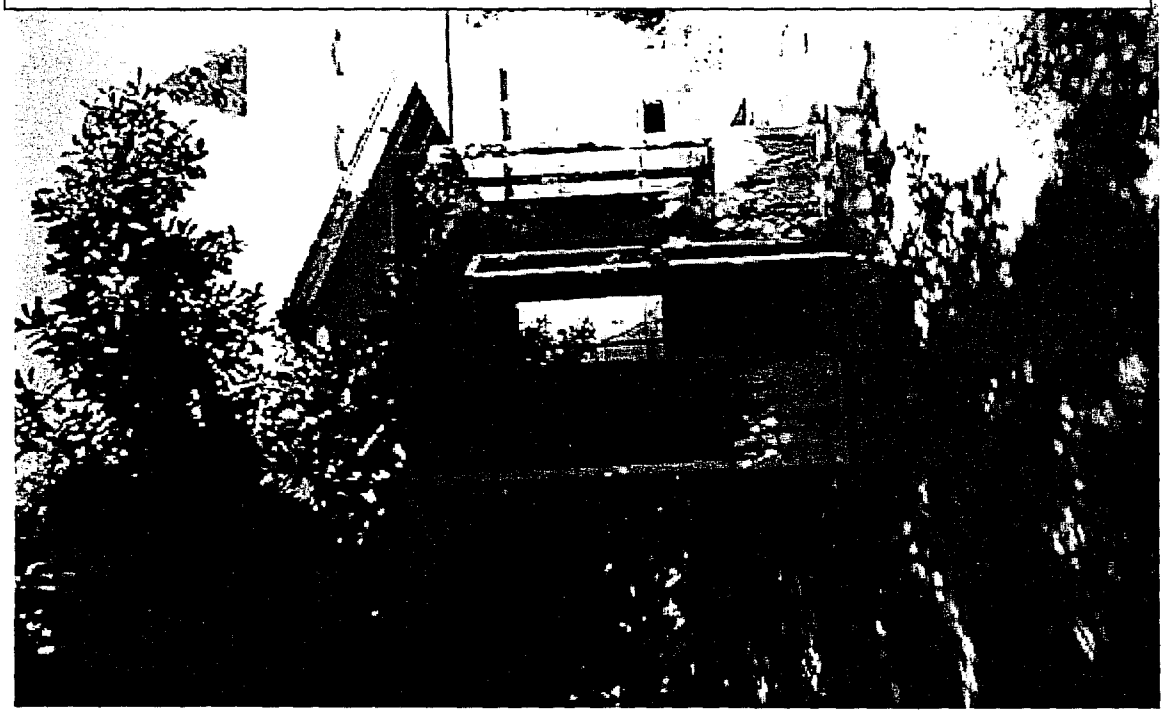


Figure 55
Men's Psychopathic Ward, Interior Courtyard
The Aviary
(Looking North)

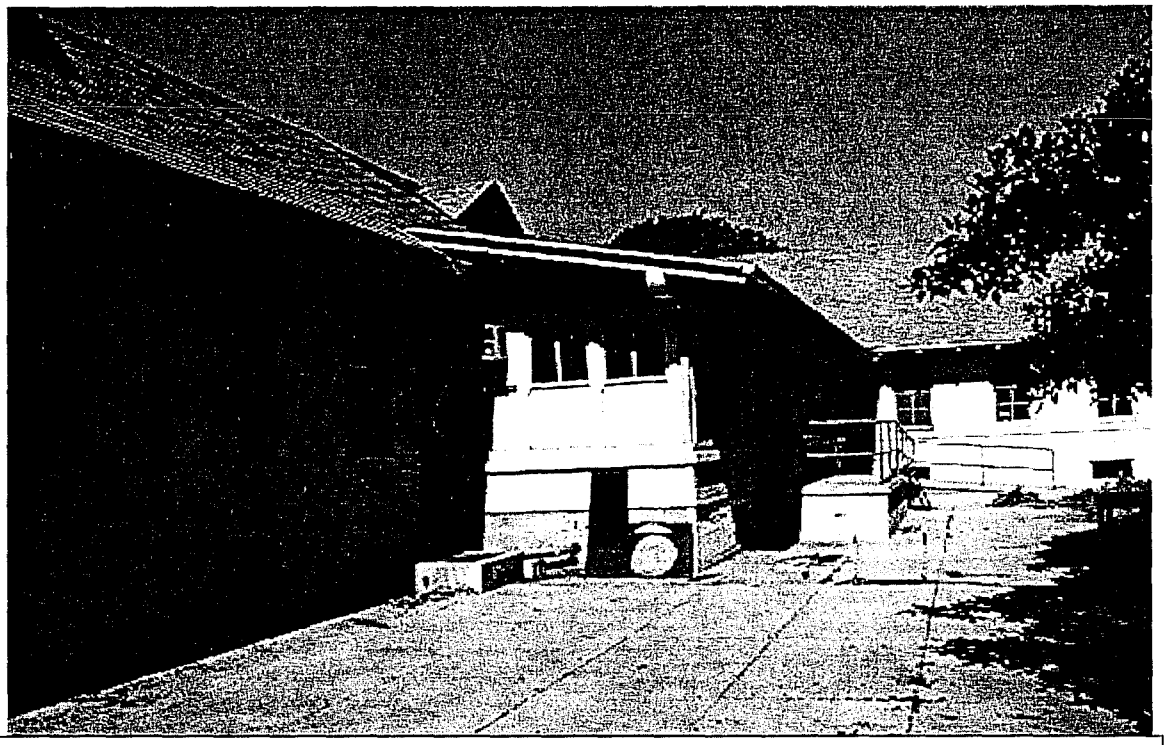


Figure 56
Building 1205
Interior Courtyard, Northeast corner,
(looking nw)

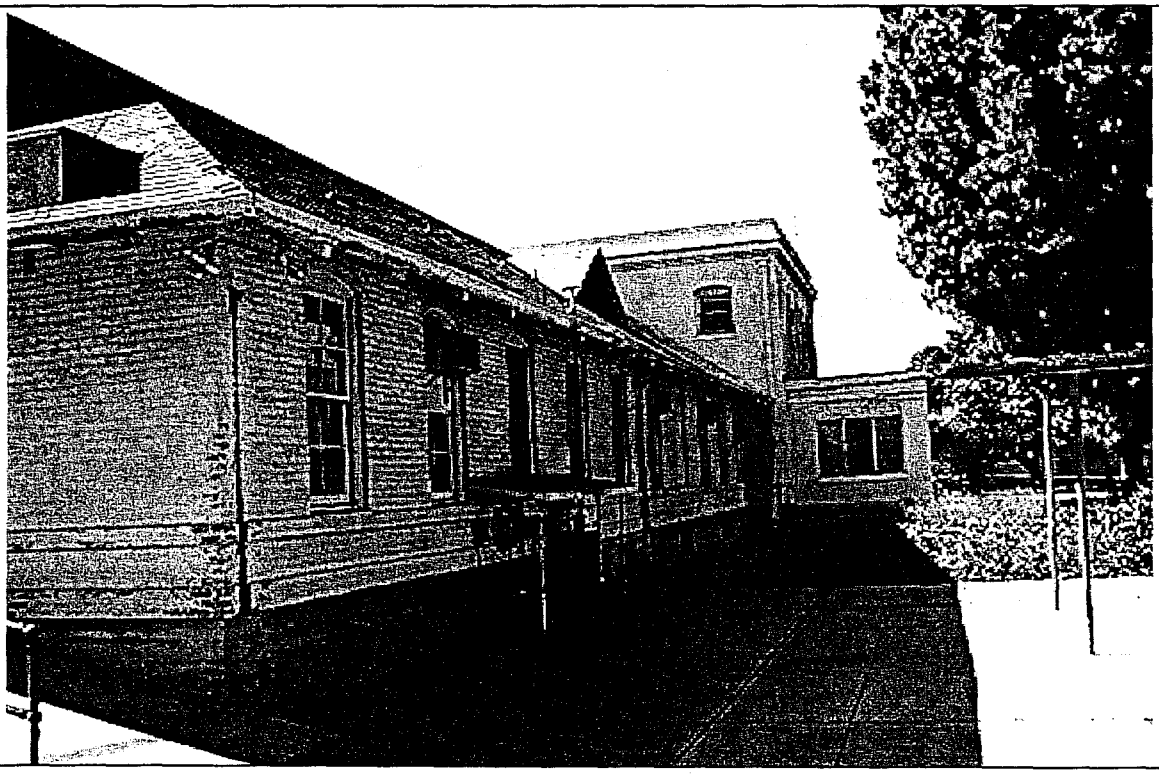


Figure 57
Building 1205, West Wing
Interior Courtyard
(looking nw)

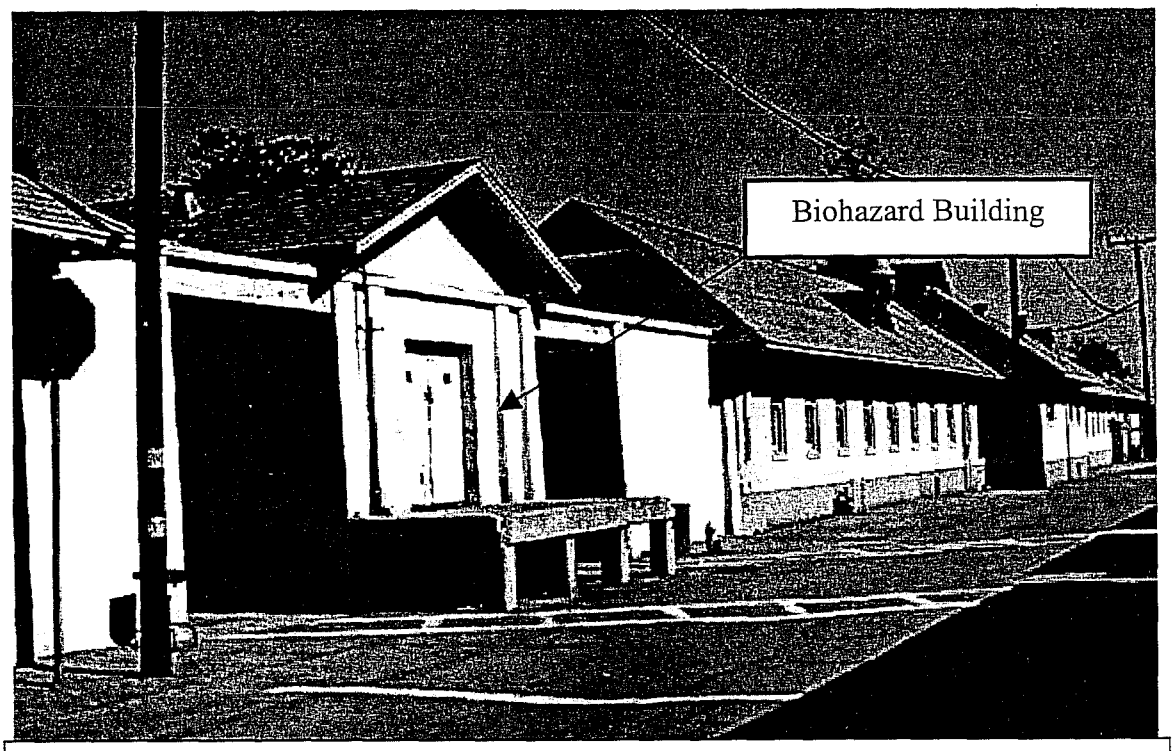


Figure 58
Building 3820 (west elevation)
(looking south)

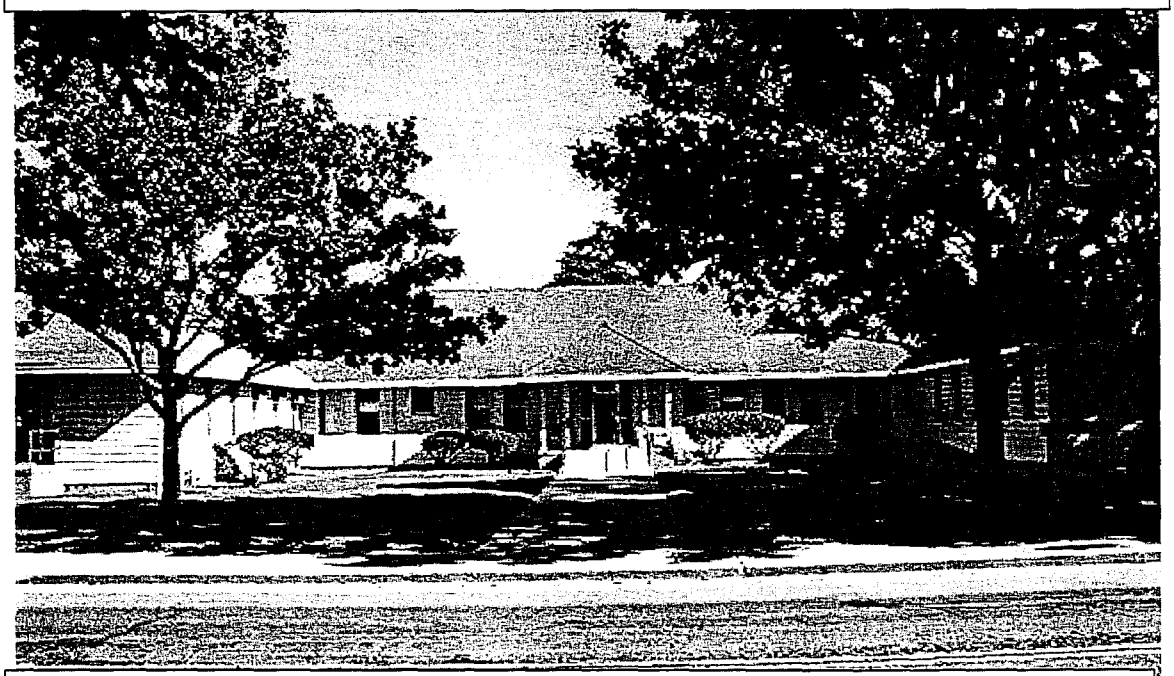


Figure 59
Building 1202/1203
Women's Psychopathic Ward
West Elevation

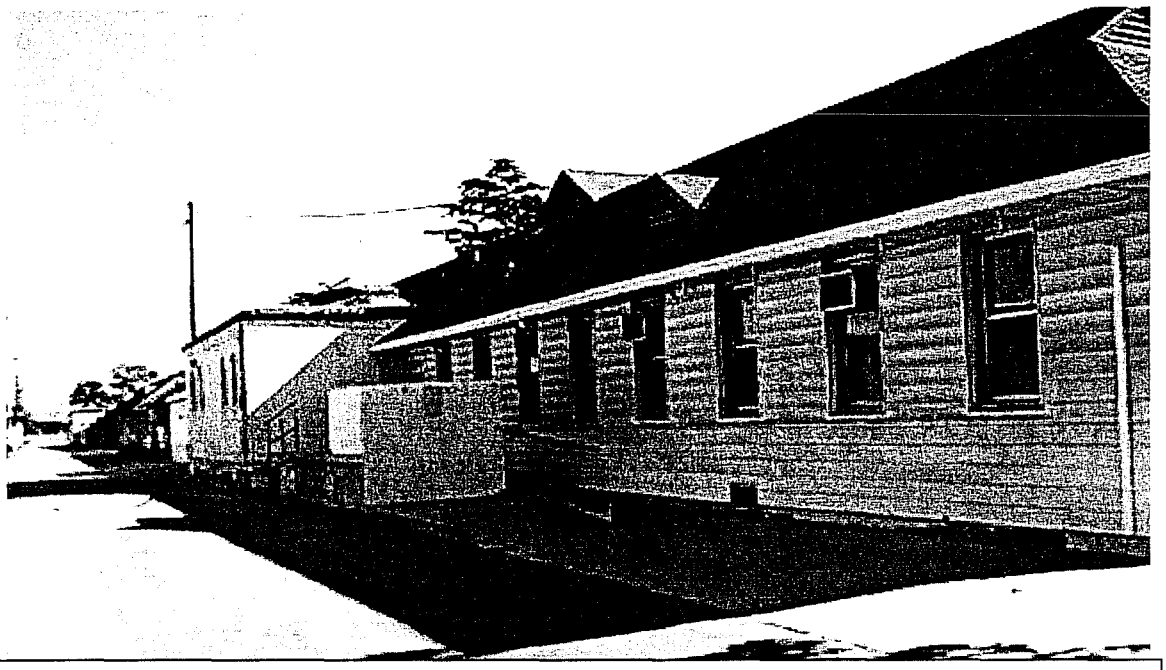


Figure 60
Building 1202/1203
Women's Psychopathic Ward
North Elevation

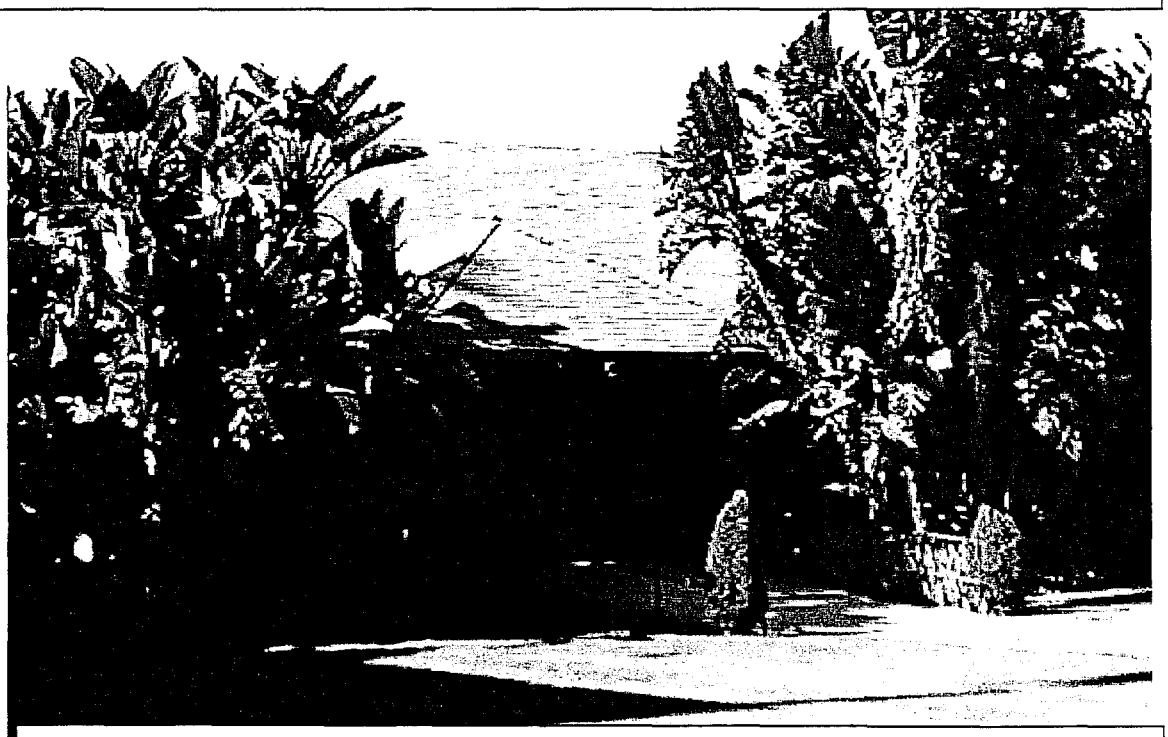


Figure 61
Building 1202/1203
Women's Psychopathic Ward
East Elevation, entrance porch
(looking West)



Figure 62
Building 1202/1203
Women's Psychopathic Ward
South Elevation

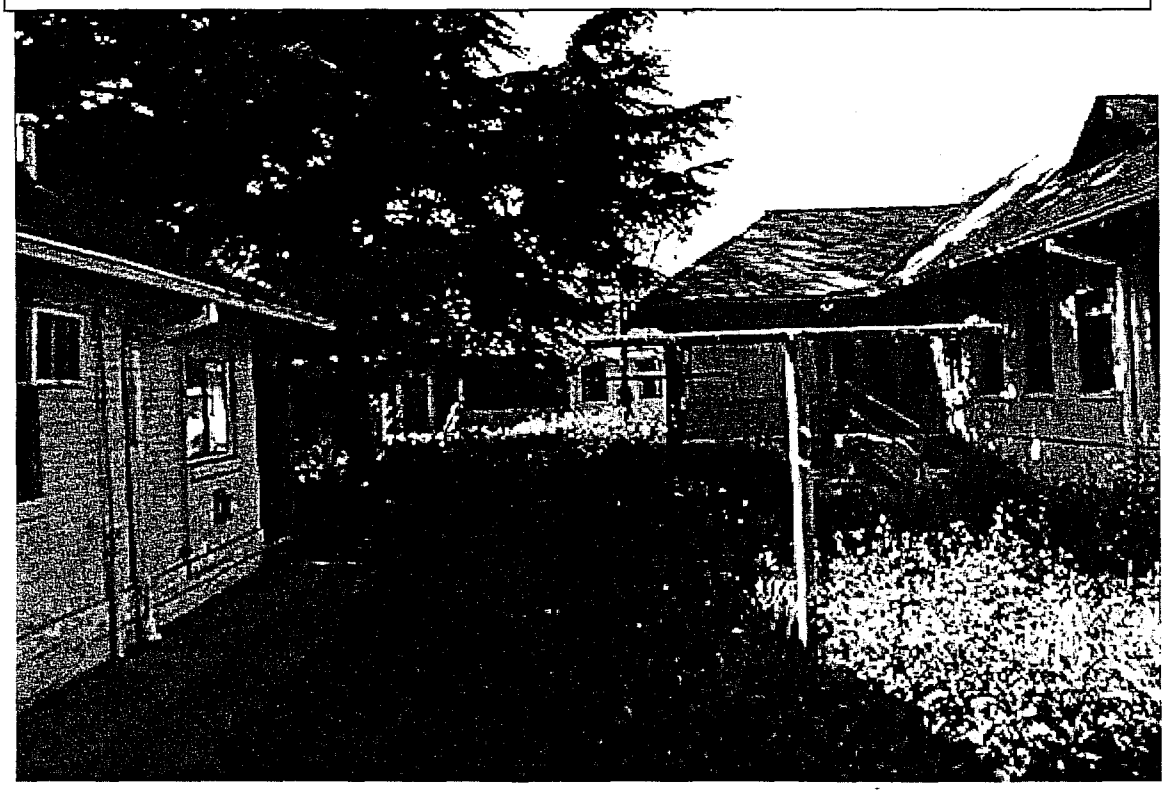


Figure 63
Building 1202/1203
Women's Psychopathic Ward
Interior Courtyard (looking west)



Figure 64
Building 1202/1203
Women's Psychopathic Ward
Interior Courtyard
(looking west)

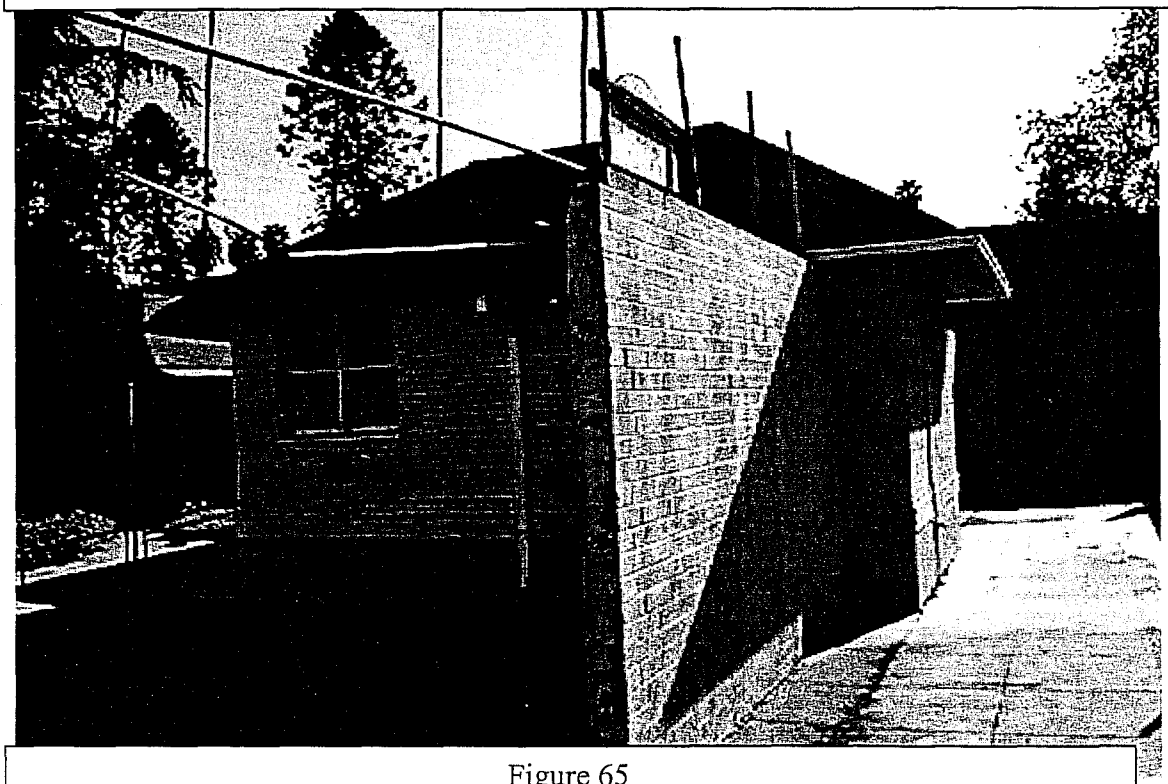


Figure 65
Building 1202/1203
Women's Psychopathic Ward
Interior Courtyard
Linen Room (Building 1241) (looking west)



Figure 66
Building 1254 (Old Chapel)
West Elevation
(looking north)

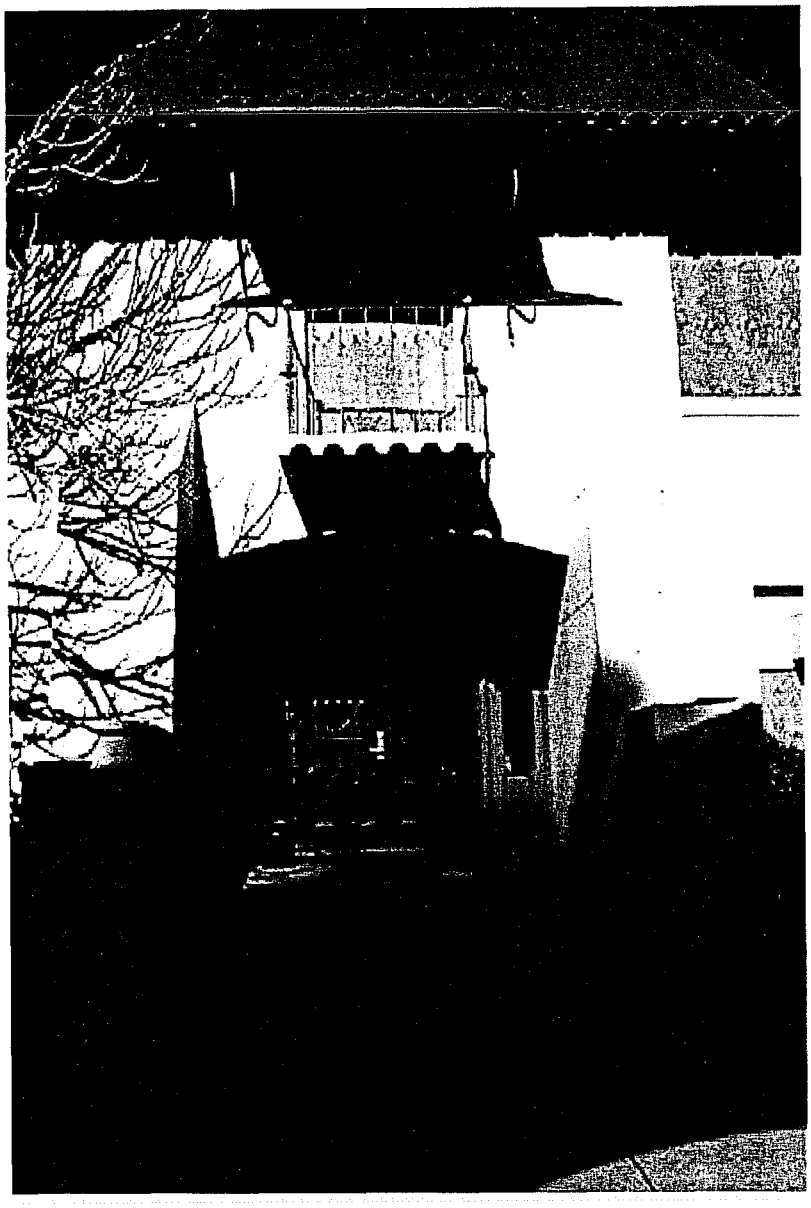


Figure 67
Building 1238
South elevation of Casa Consuelo (Detail of main entrance)
(looking north)

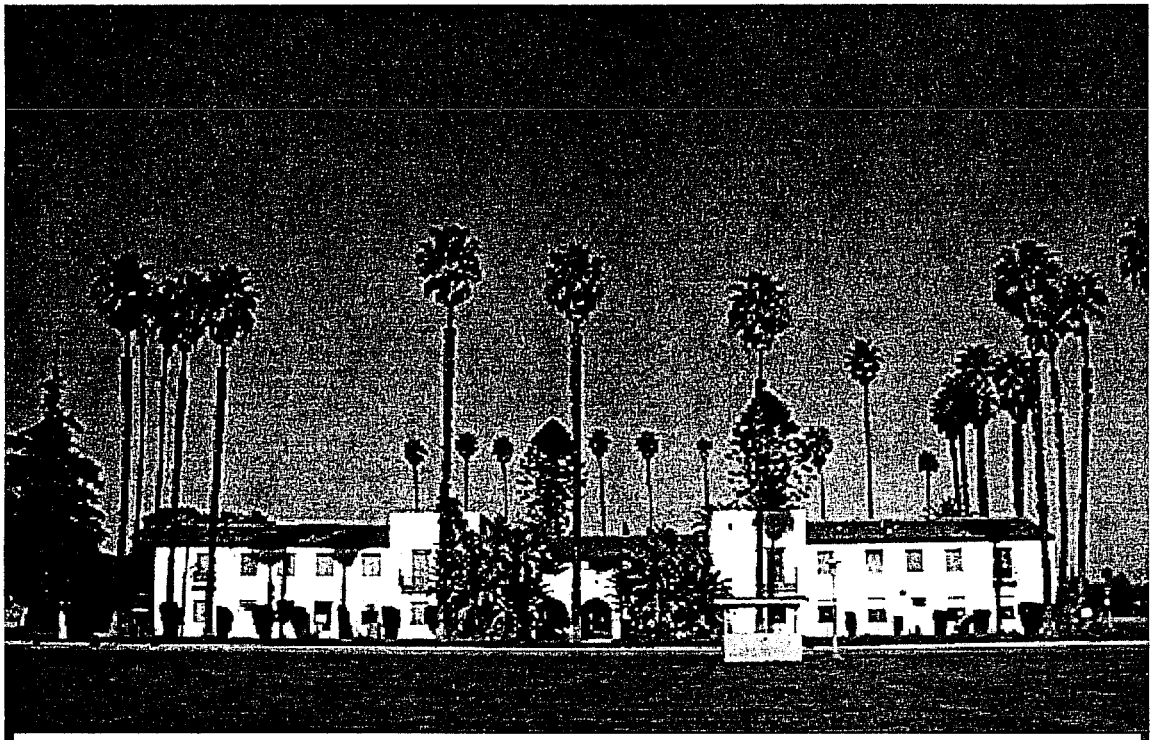


Figure 68
Building #1238
South elevation of Casa Consuelo
(looking north)

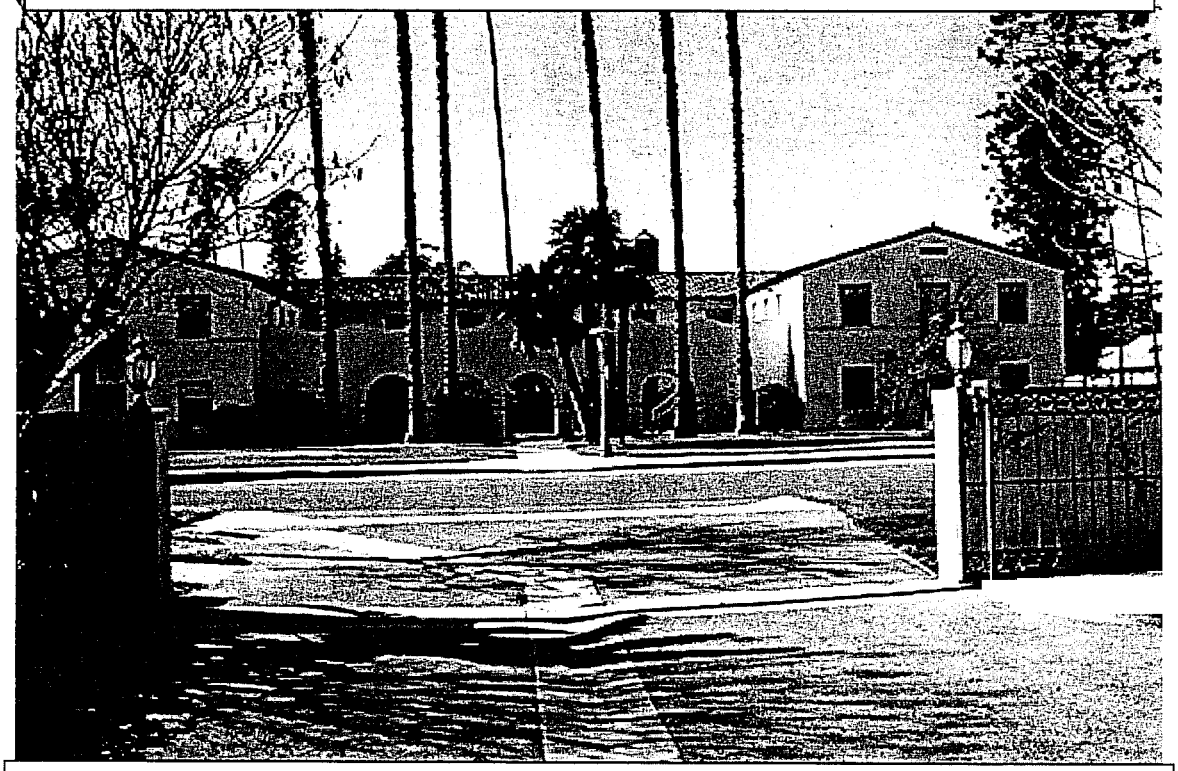


Figure 69
Building 1238
East elevation of Casa Consuelo
(looking south)



Figure 70
Building 1238
North Elevation of Casa Consuelo
(looking southeast)

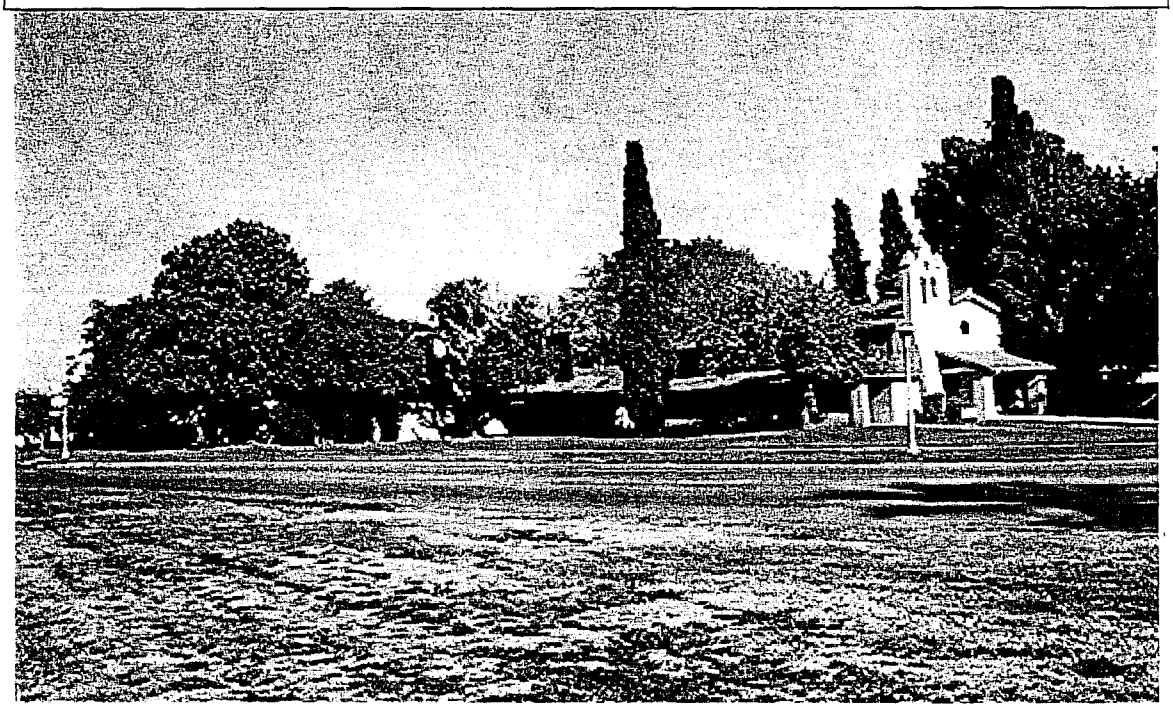


Figure 71
Building 3592
North and west Elevation of the Chapel

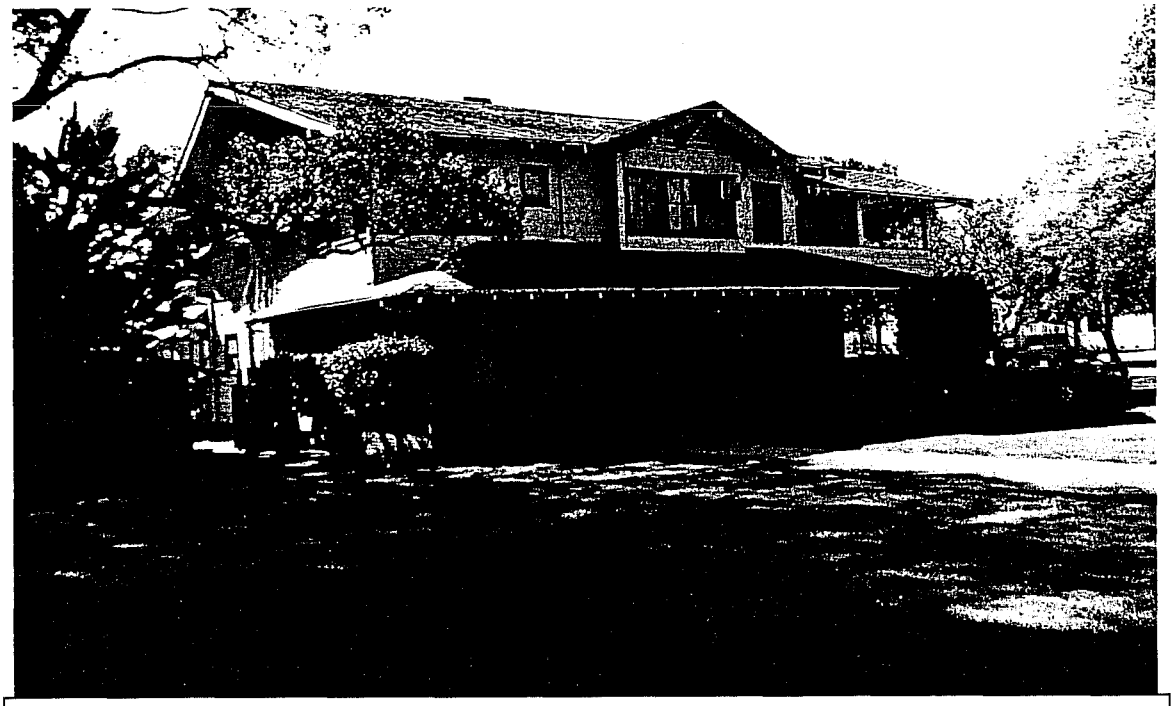


Figure 72
Building 1101
North elevation of Harriman House
(looking south)



Figure 73
Building 1101
West elevation of Harriman House
(looking east)

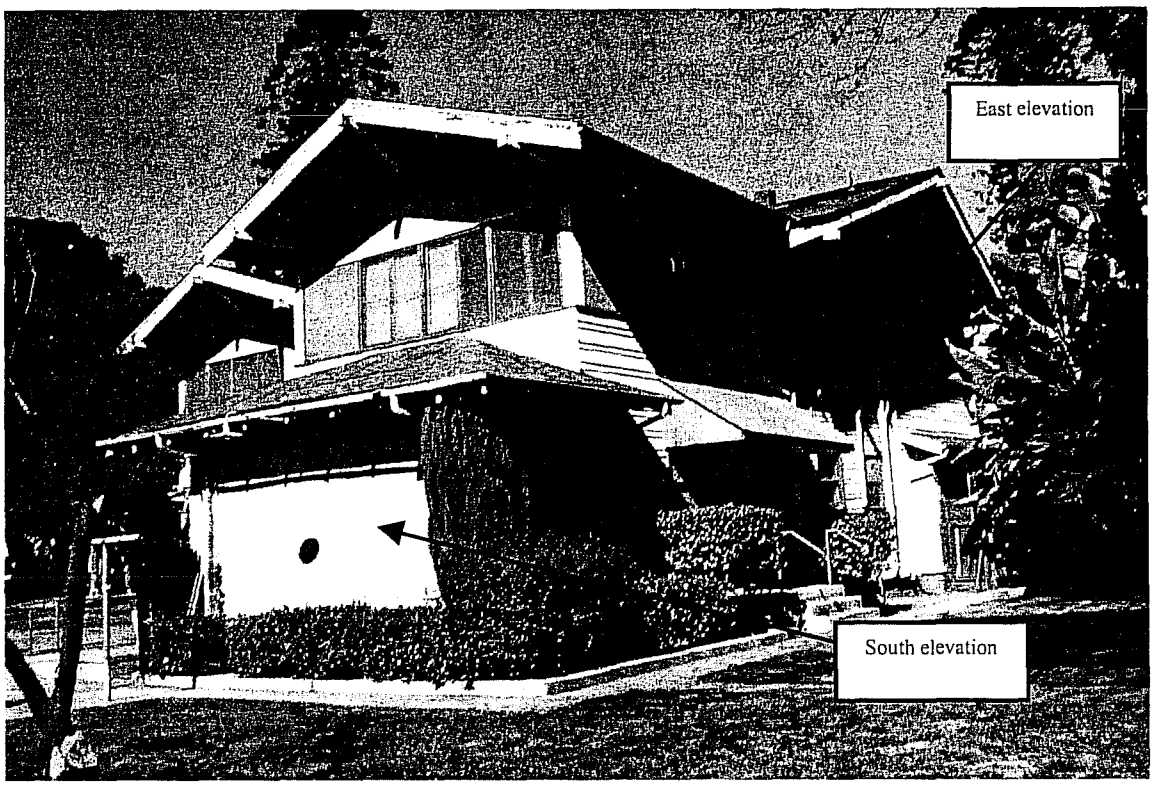


Figure 74
Building 1101
South and east elevations of Harriman House
(looking northwest)



Figure 75
Building 1101
East Elevation of Superintendent's House
(looking northwest)

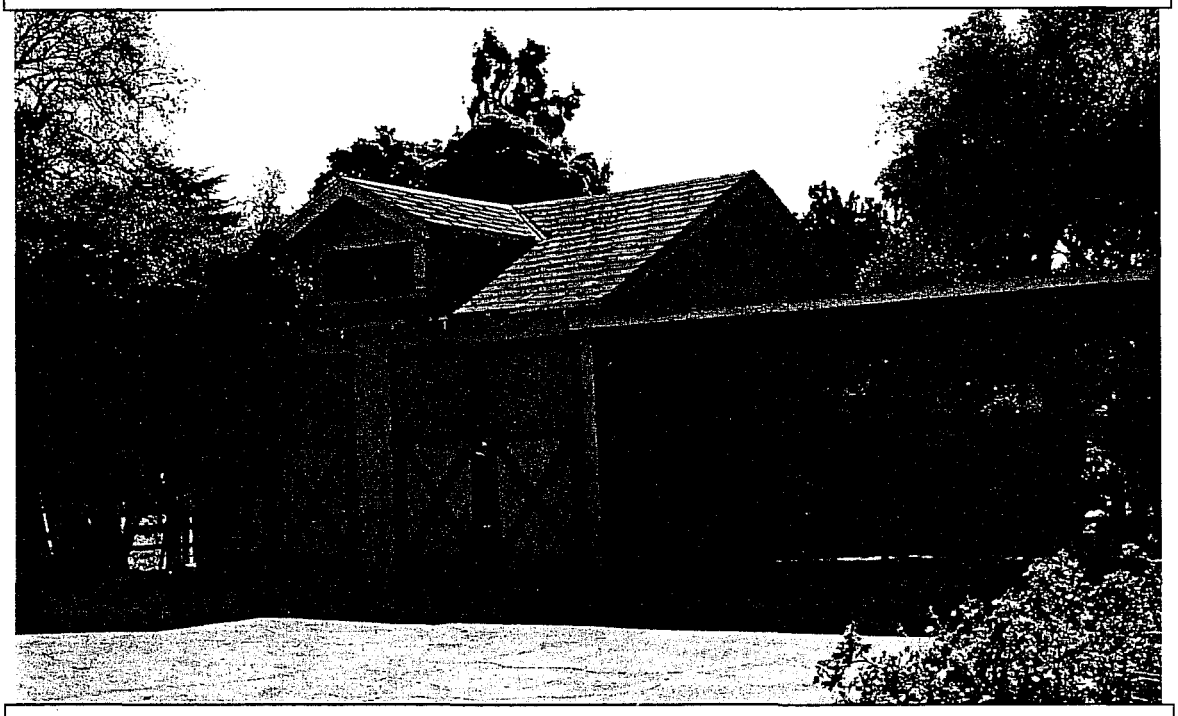


Figure 76
Building 1177
North elevation of garage
(looking southeast)



Figure 77
Building 1178
North and west elevation's of Shed



Figure 78
Building 1100
East Elevation of Old Administrative Building
(looking west

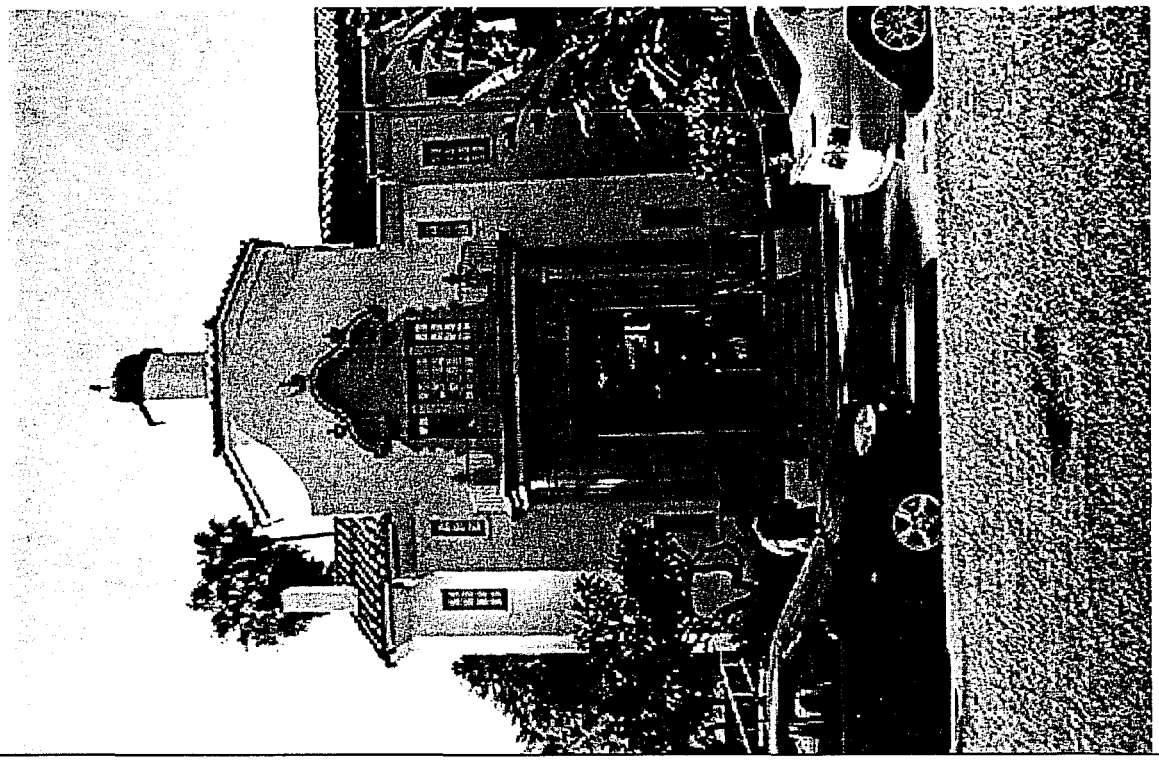


Figure 79
Building 1100
Detail of tower on east elevation of Old Administrative Building
(looking west)

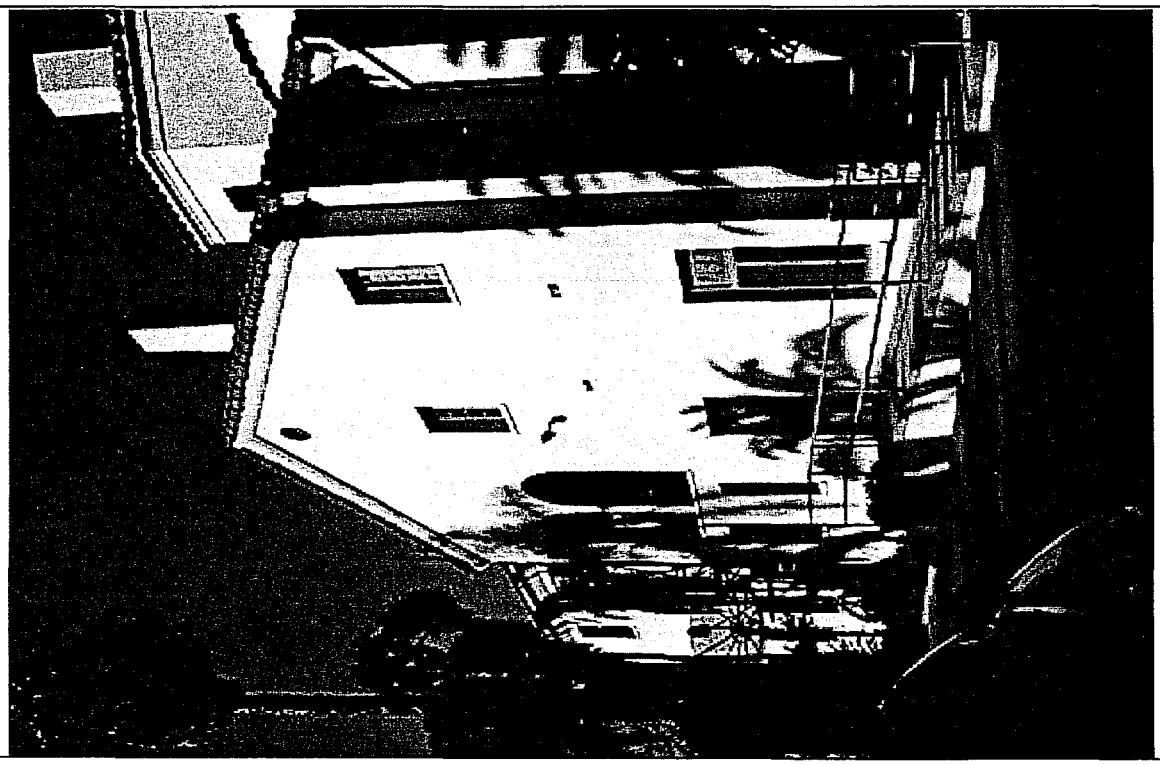


Figure 80
Building 1100
South elevation of old Administrative Building
(looking northwest)

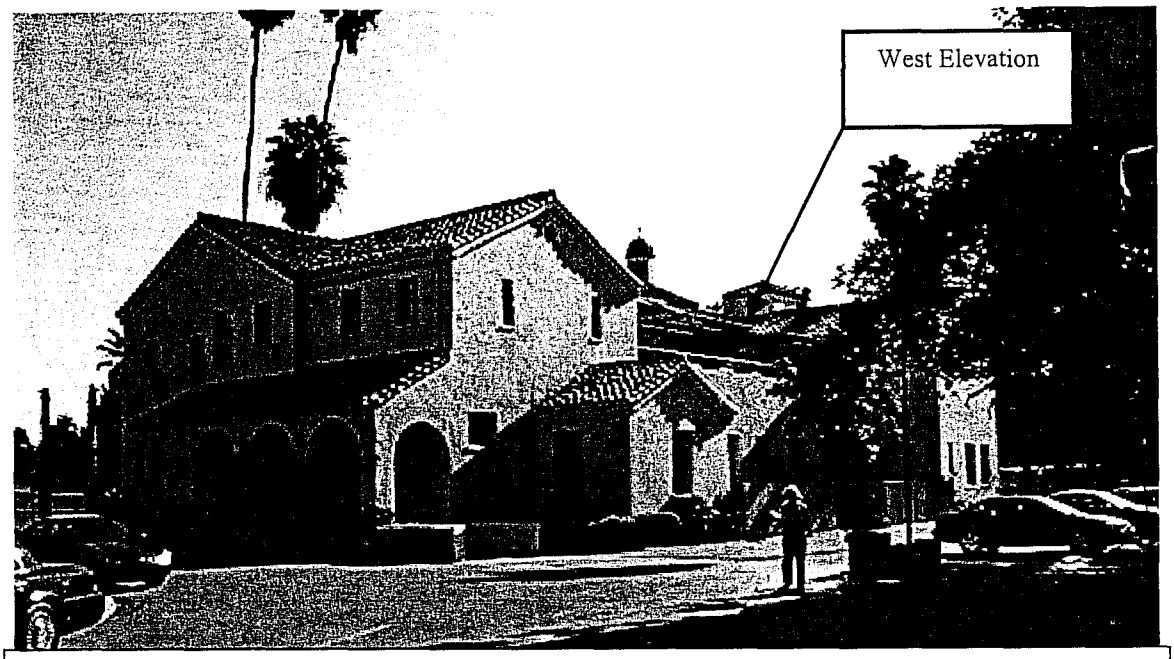


Figure 81
Building 1101
West Elevation of Old Administrative Building
(looking southeast)

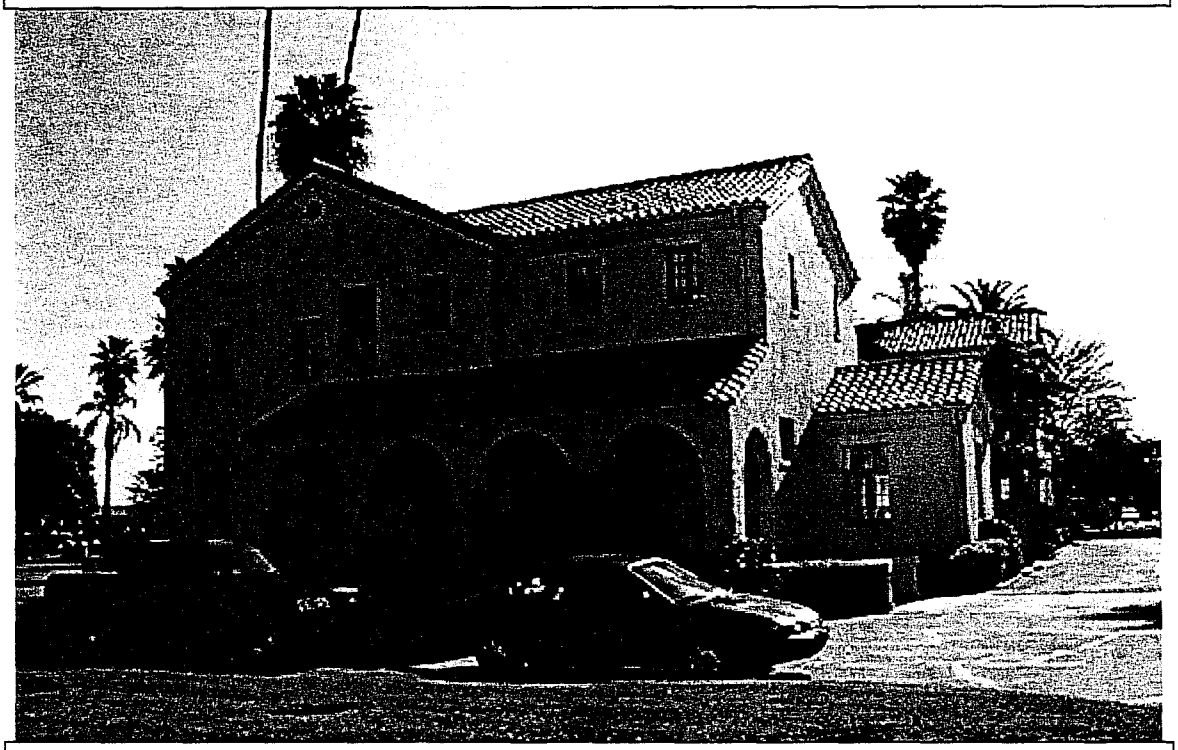


Figure 82
Building 1101
West Elevation of Old Administrative Building
(looking southeast)

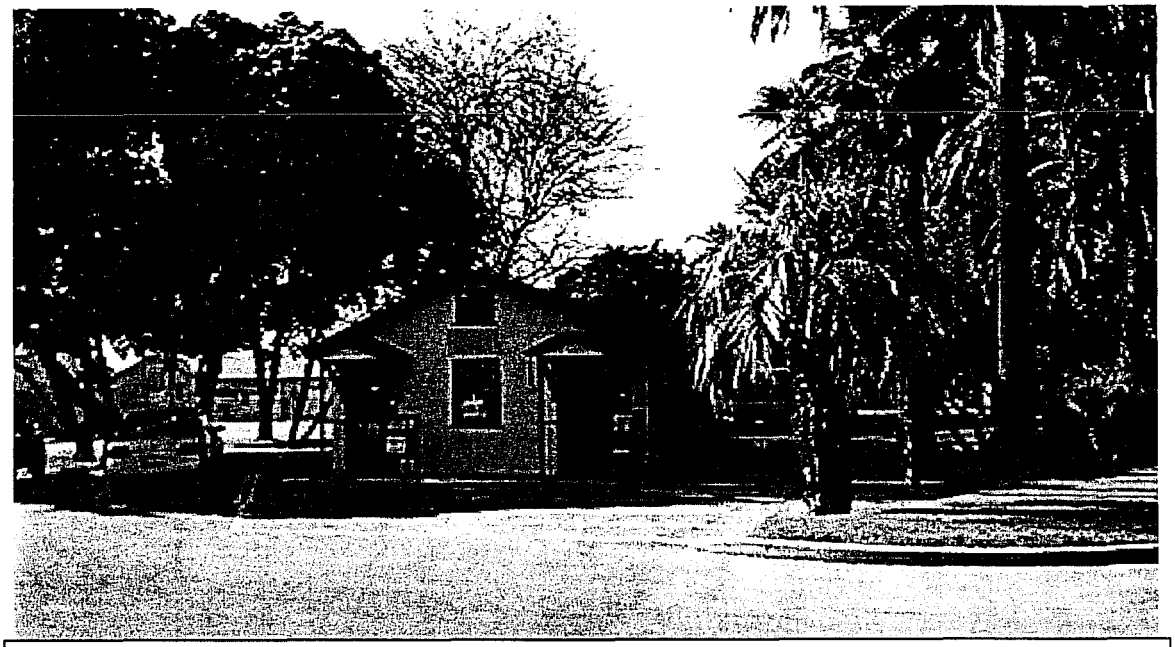


Figure 83
Building 2677
South elevation of Post Office
(looking west)



Figure 84
Building 1353
East elevation of lath house
(looking west)

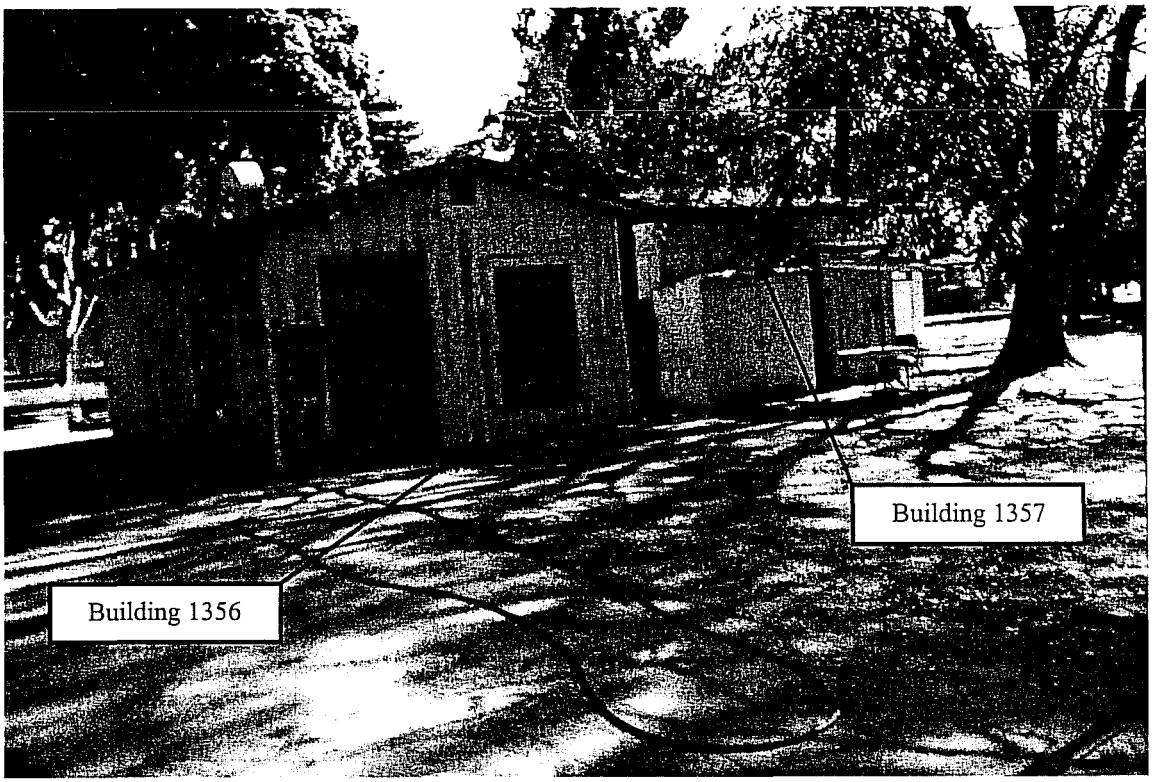


Figure 85
Building 1356 and Building 1357
West elevation of Landscape Office and Storage Building
West Elevation
(looking southeast)

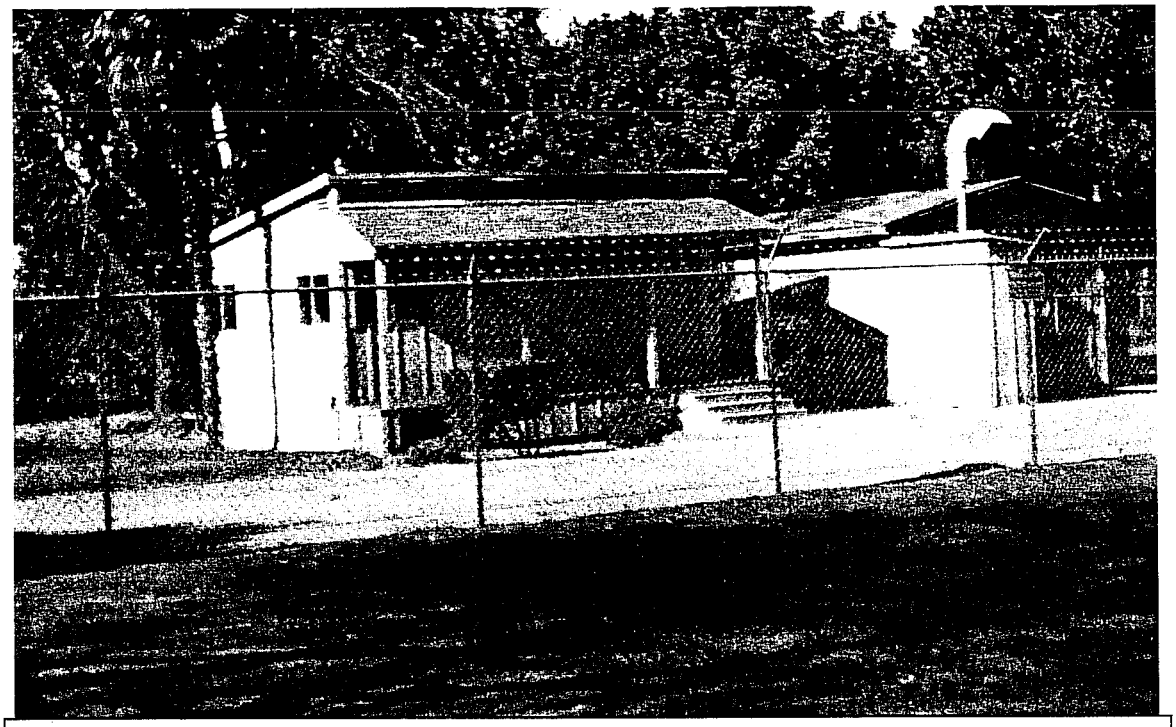


Figure 86
Building 1357
East elevation
(looking west)

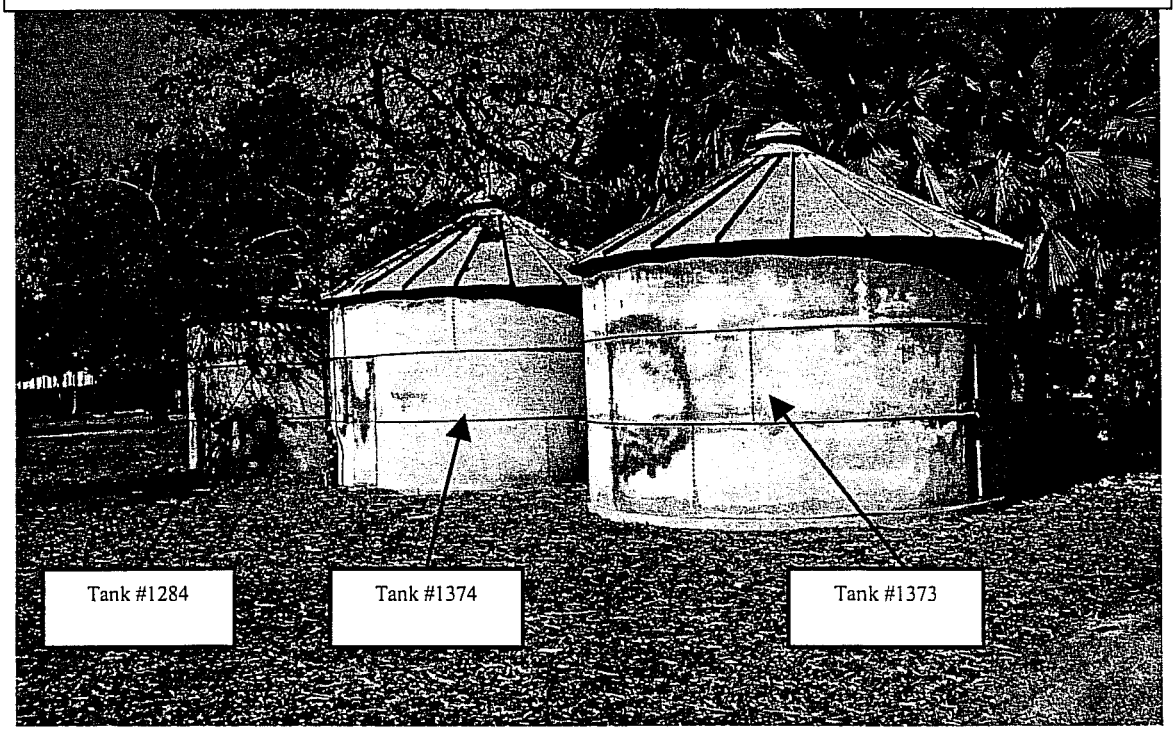


Figure 87
Metal tanks, 1284, 1373 and 1374
(looking northwest)

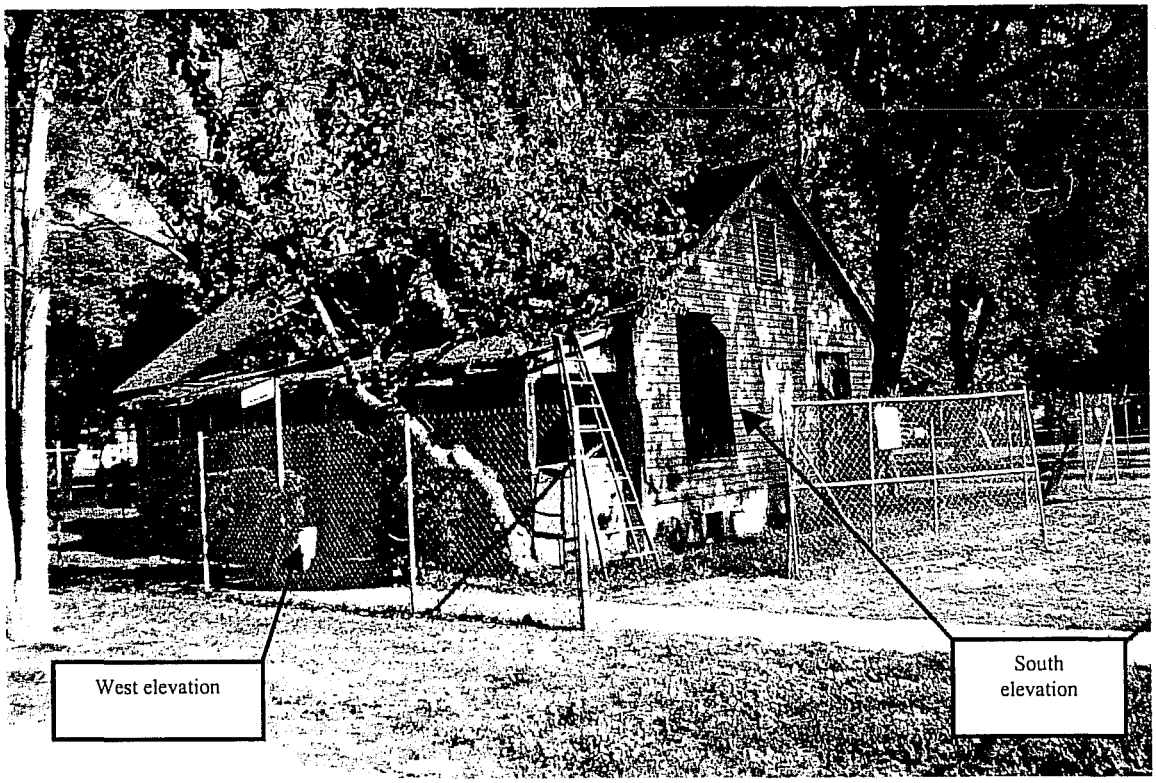


Figure 88
Building 1137
West and south elevations of Dairyman's house
(looking northeast)

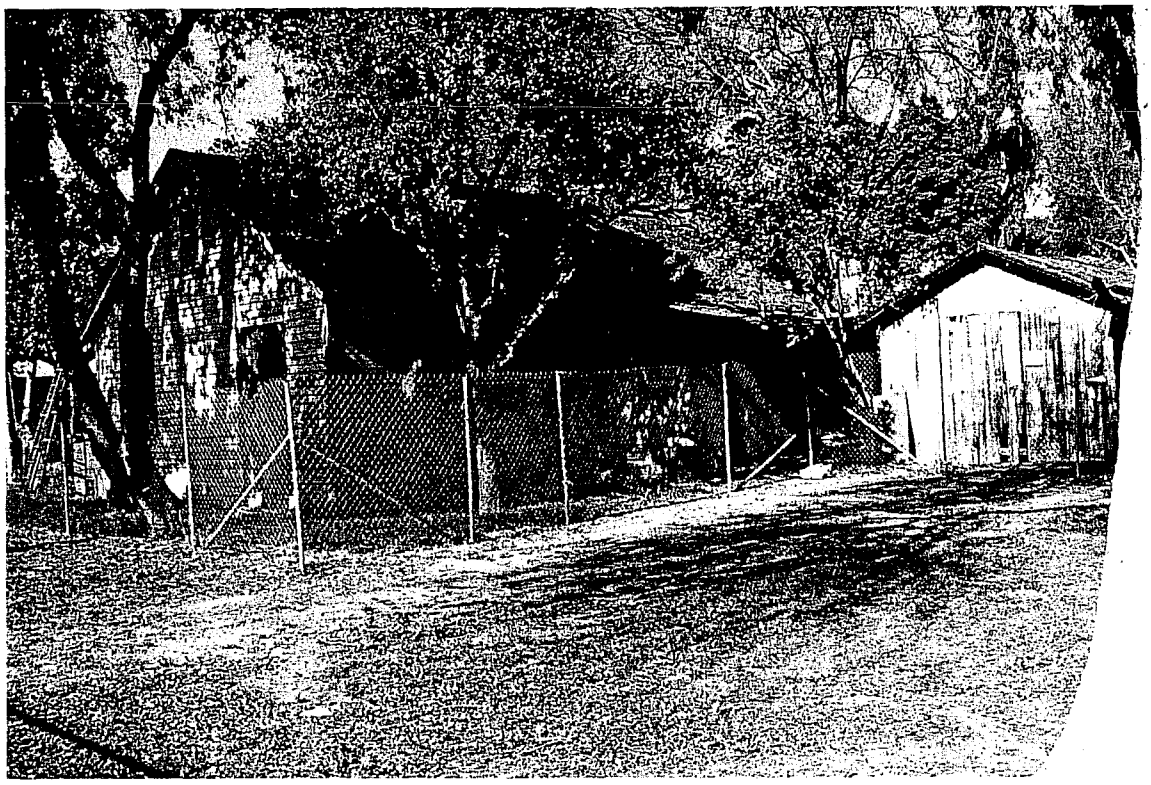


Figure 89
Building 1137
East and South elevations of Dairyman's house
(looking northwest)

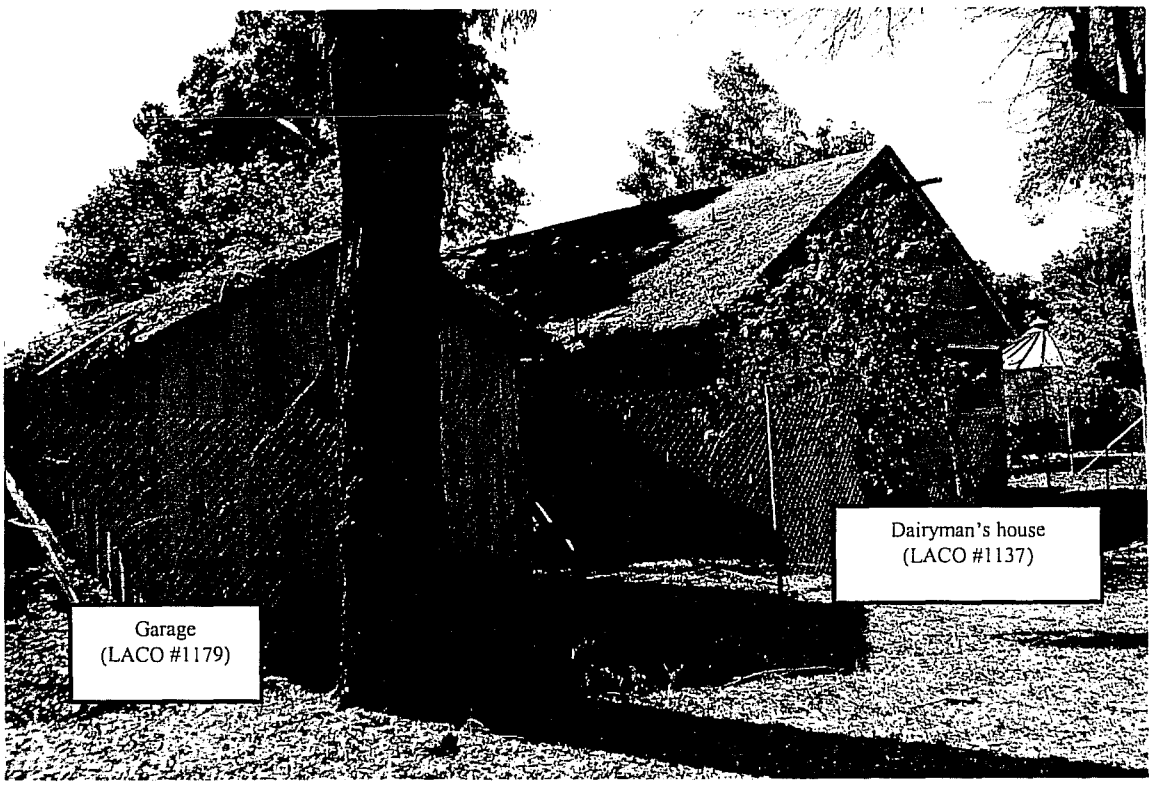


Figure 90
Buildings 1137 (house) and 1179 (garage)
North Elevation of Dairyman's house and garage

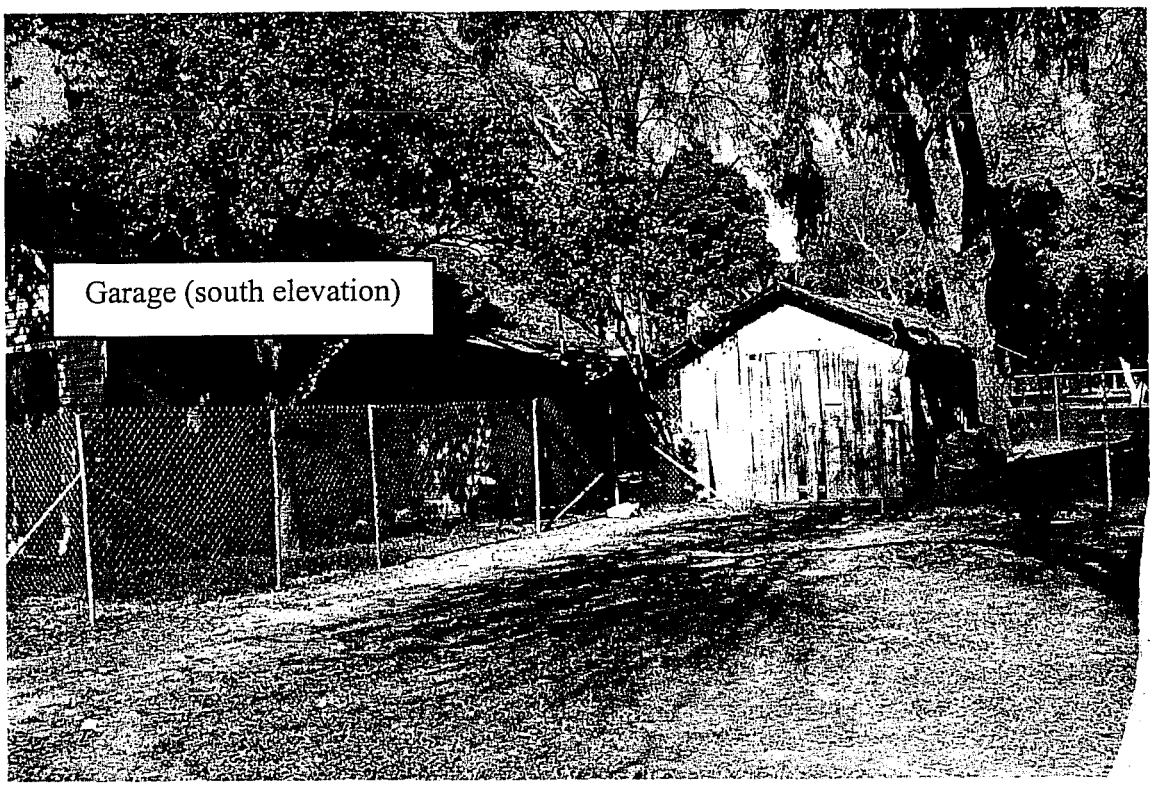


Figure 91
Building 1179
South Elevation of Garage
(looking northwest)

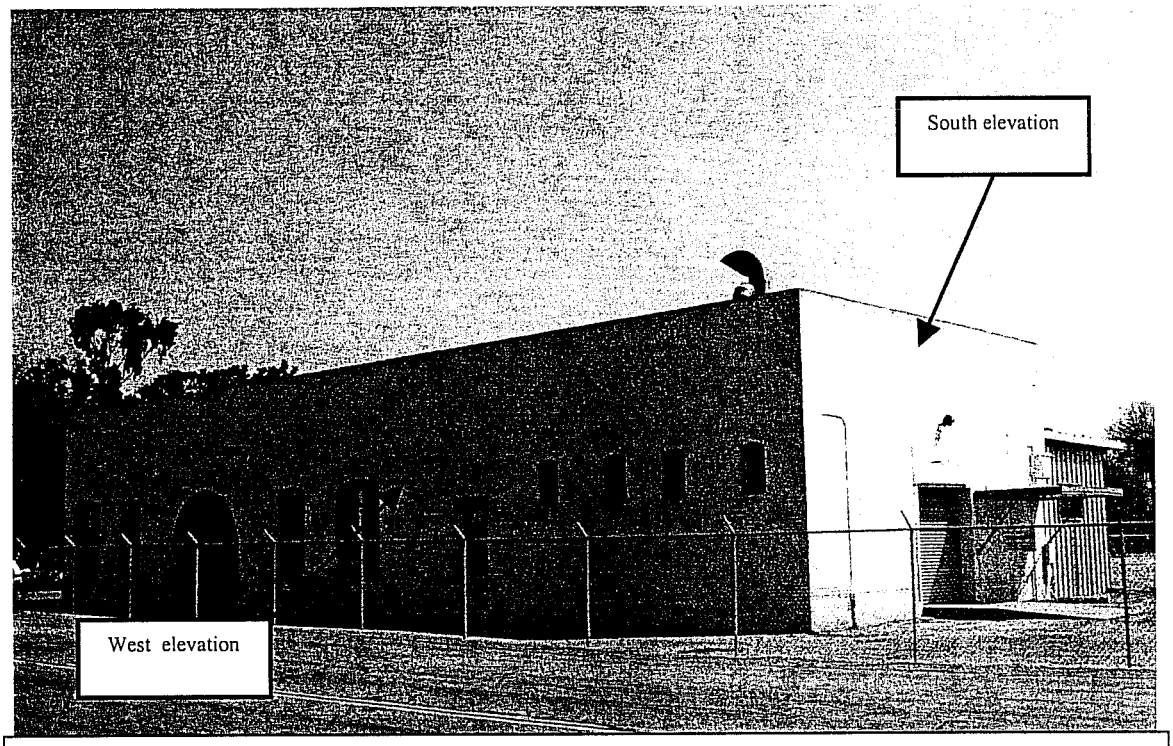


Figure 92
Building 1283
South and West elevations of former stable
(looking southeast)

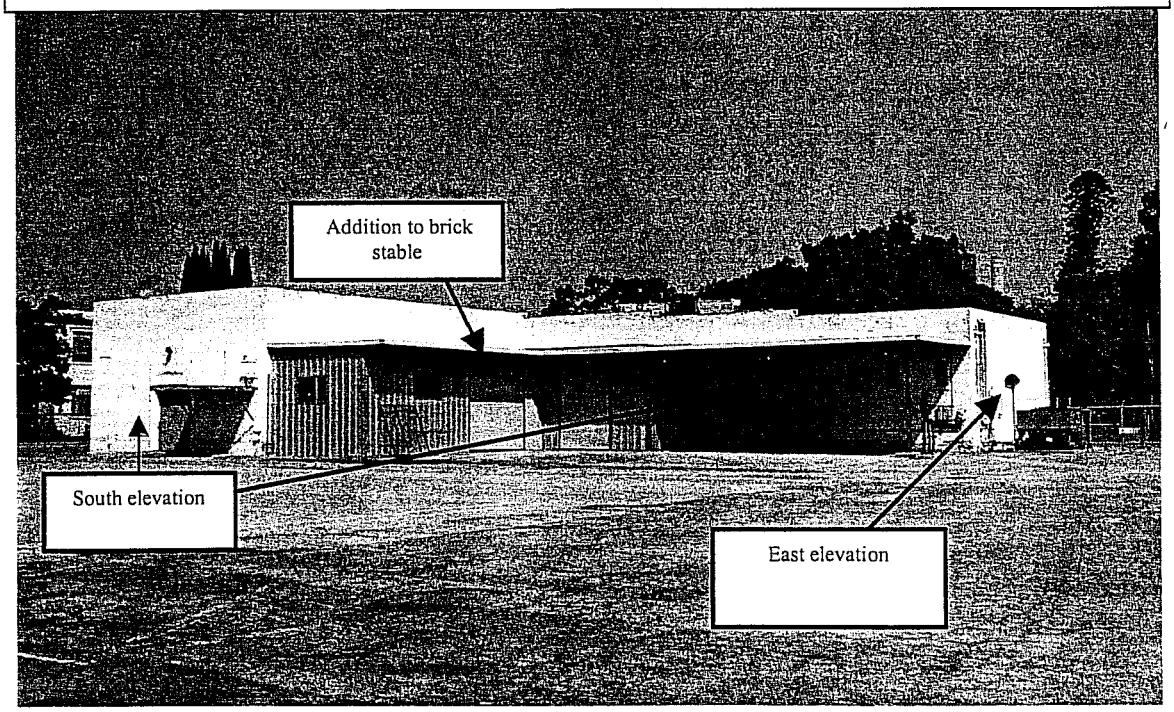


Figure 93
Building 1283
South and east elevations of former stable
(looking northeast)

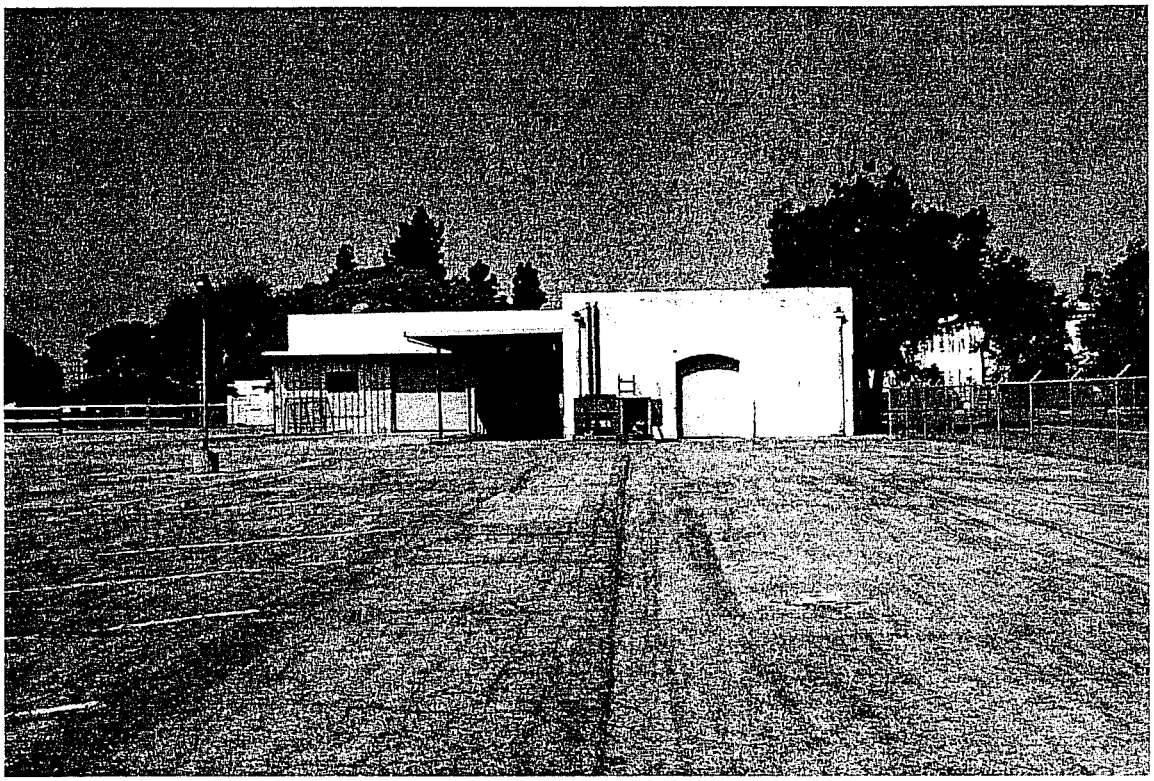


Figure 94
Building 1283
East elevation of former stable
(looking west)

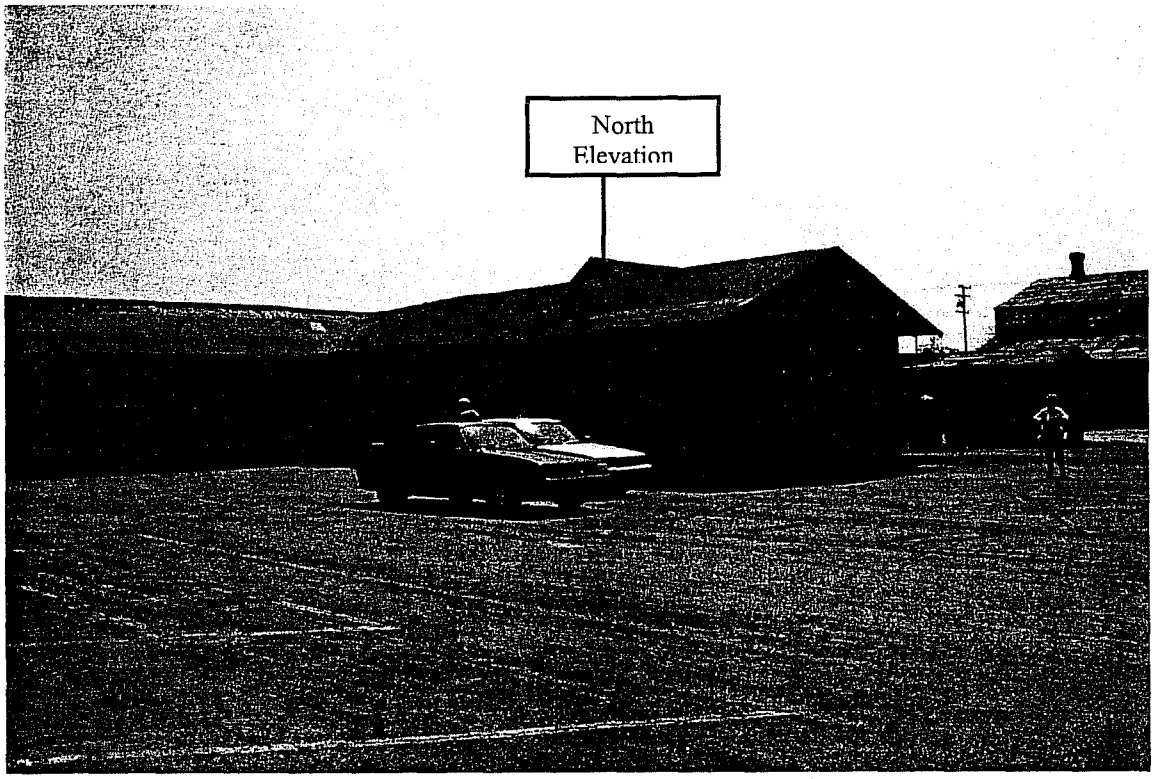


Figure 95
Building 1286
North elevation of former farm building
(looking southeast)

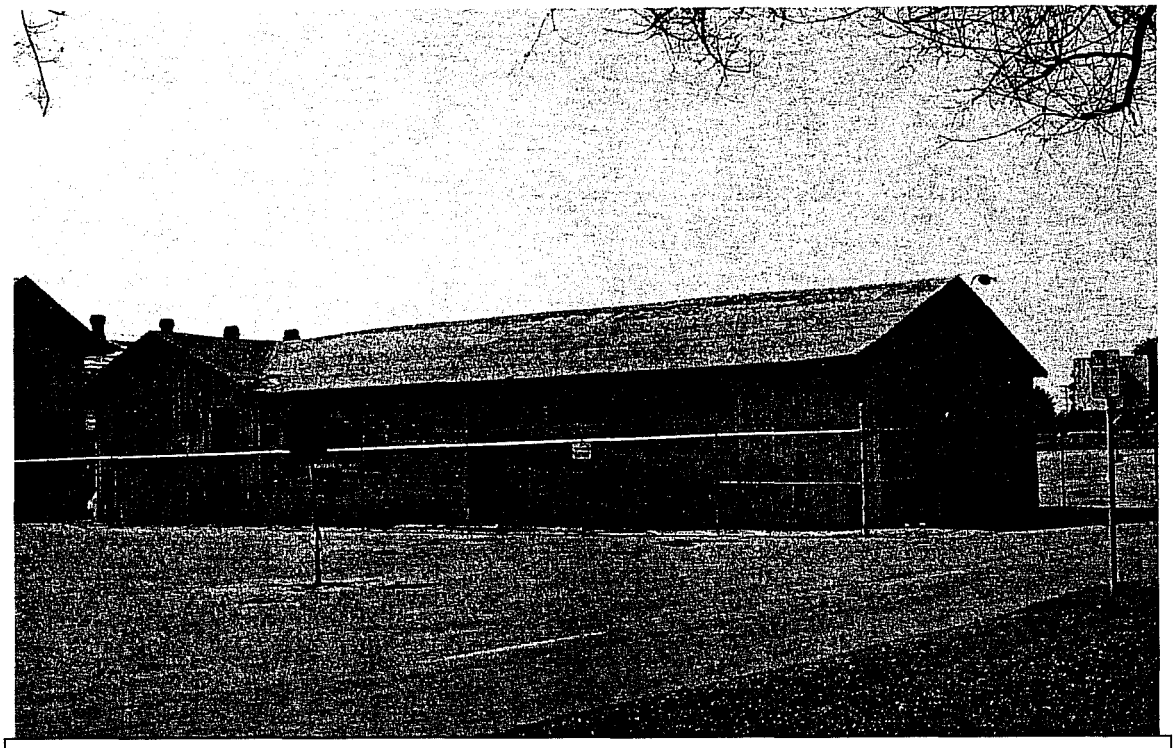


Figure 96
Building 1286
East elevation of former farm building
(looking west)

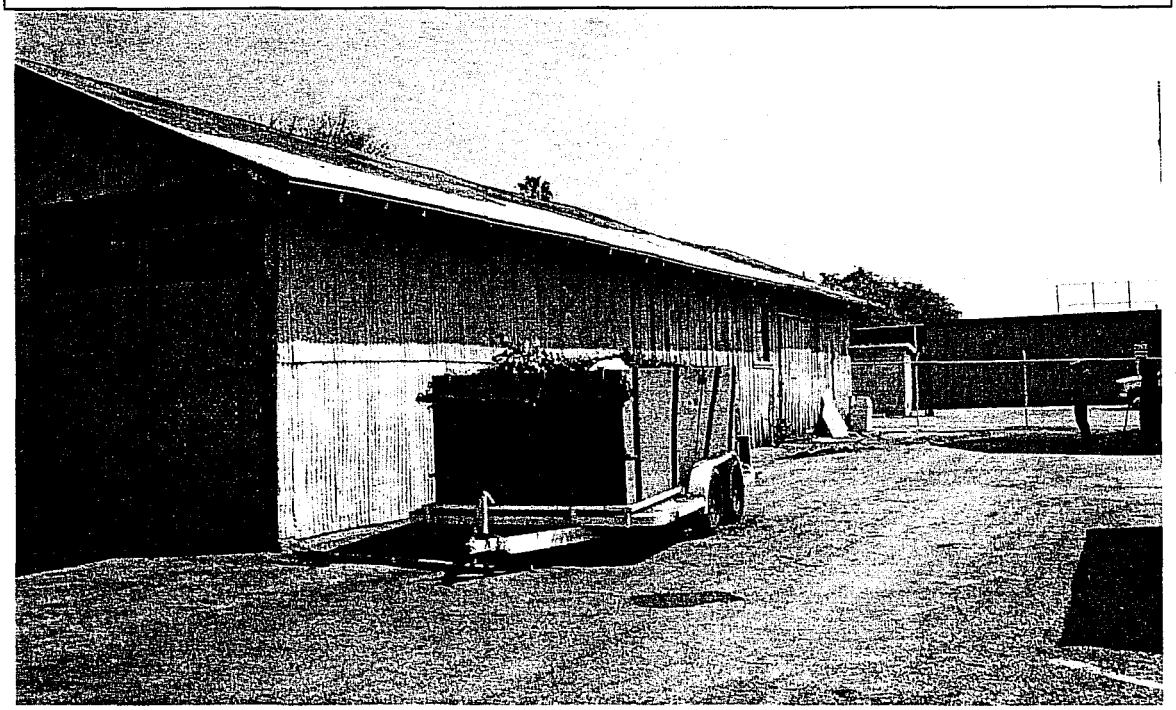


Figure 97
Building 1286
South elevation of former farm building
(looking east)

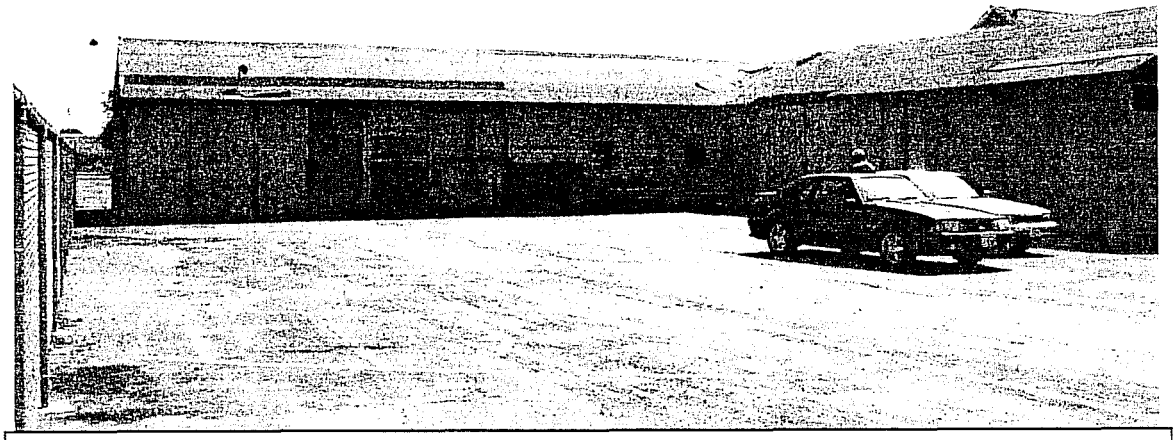


Figure 98
Building 1286
West elevation of former farm building
(looking east)

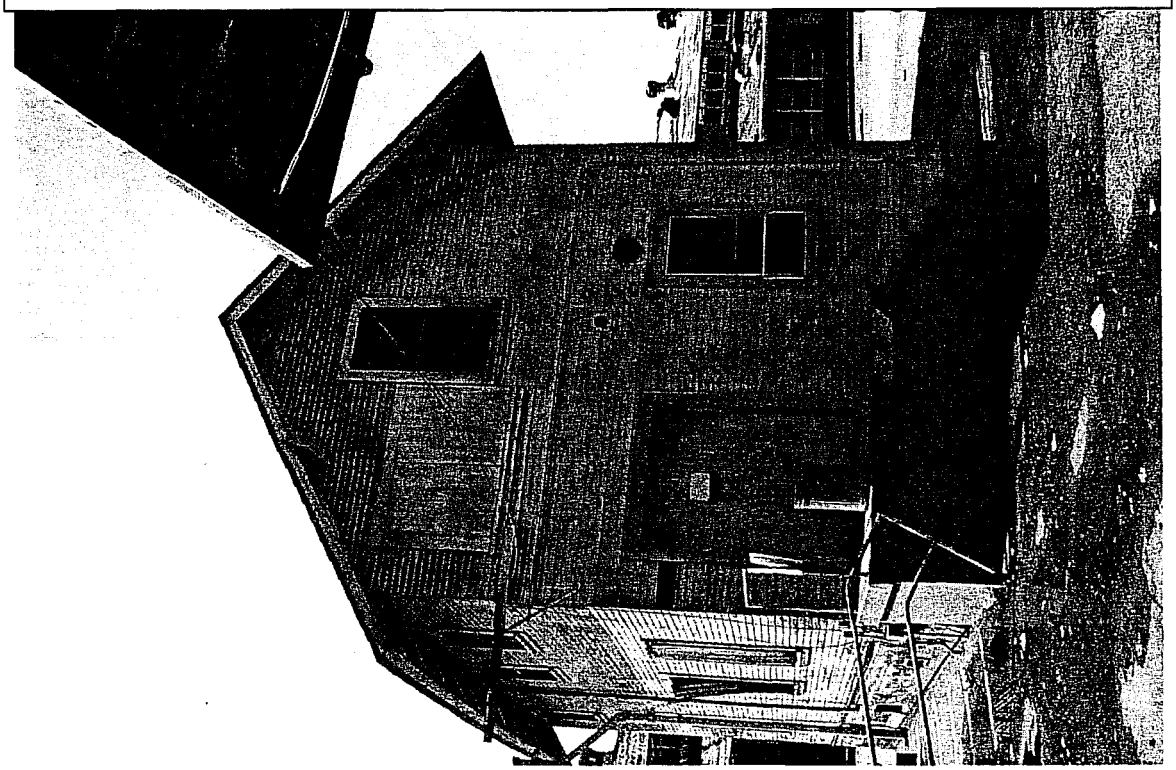


Figure 99
Building 1287
North elevation of former farm building
(looking south)

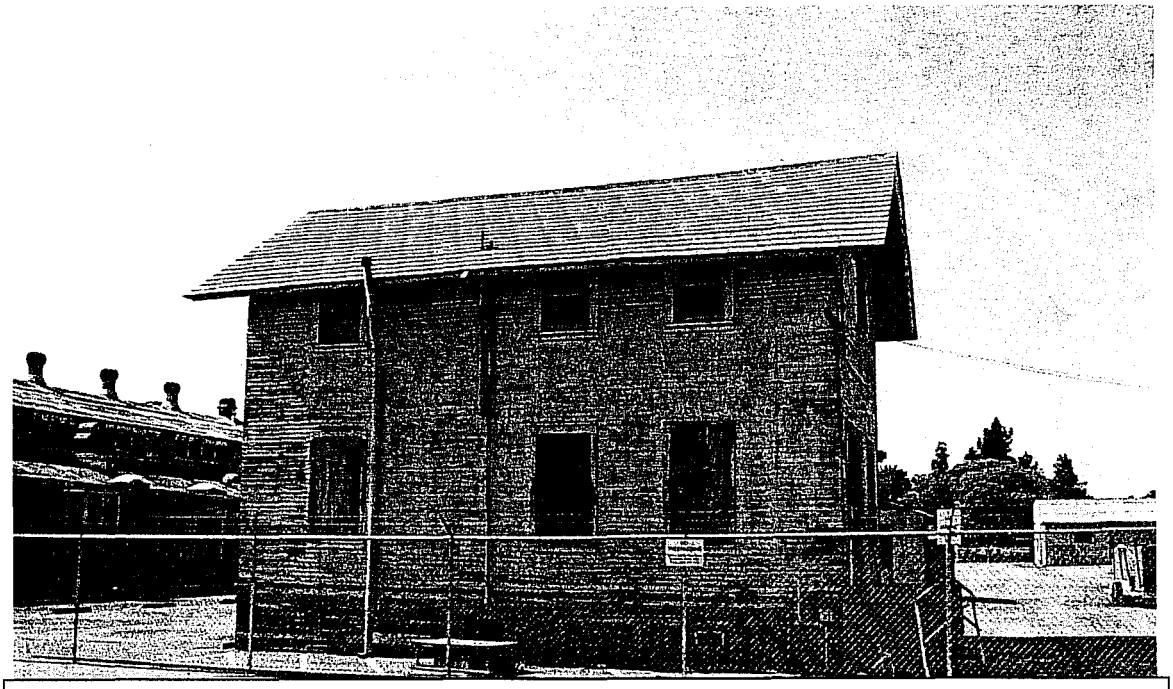


Figure 100
Building 1287
East elevation of former farm building
(looking west)

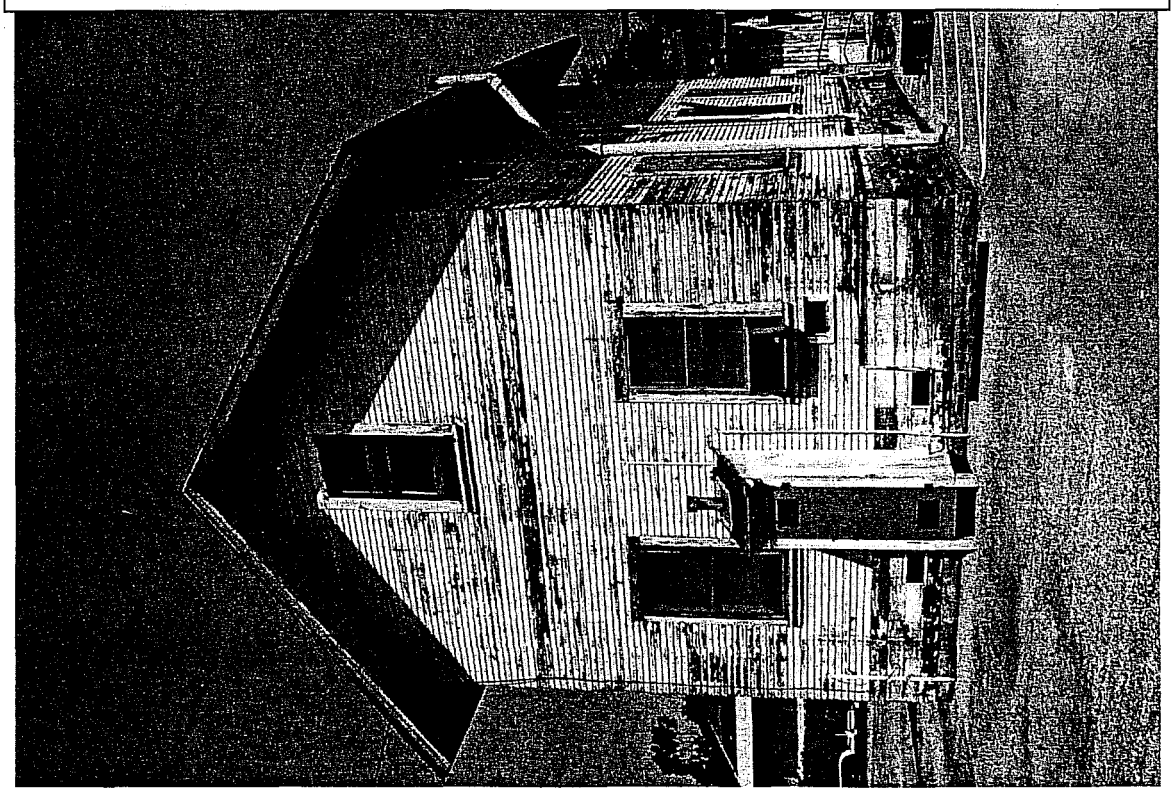


Figure 101
Building 1287
South elevation of former farm building
(looking north)

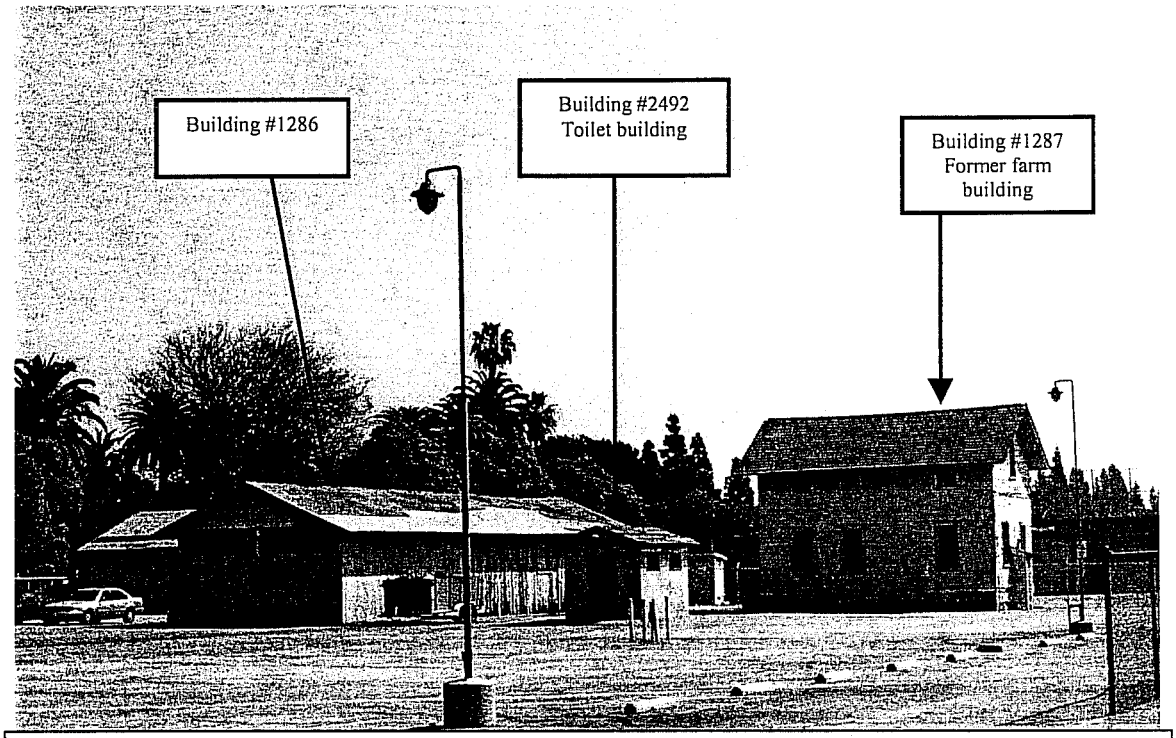


Figure 102
Buildings, 1286, 2492 and 1287
(looking east)

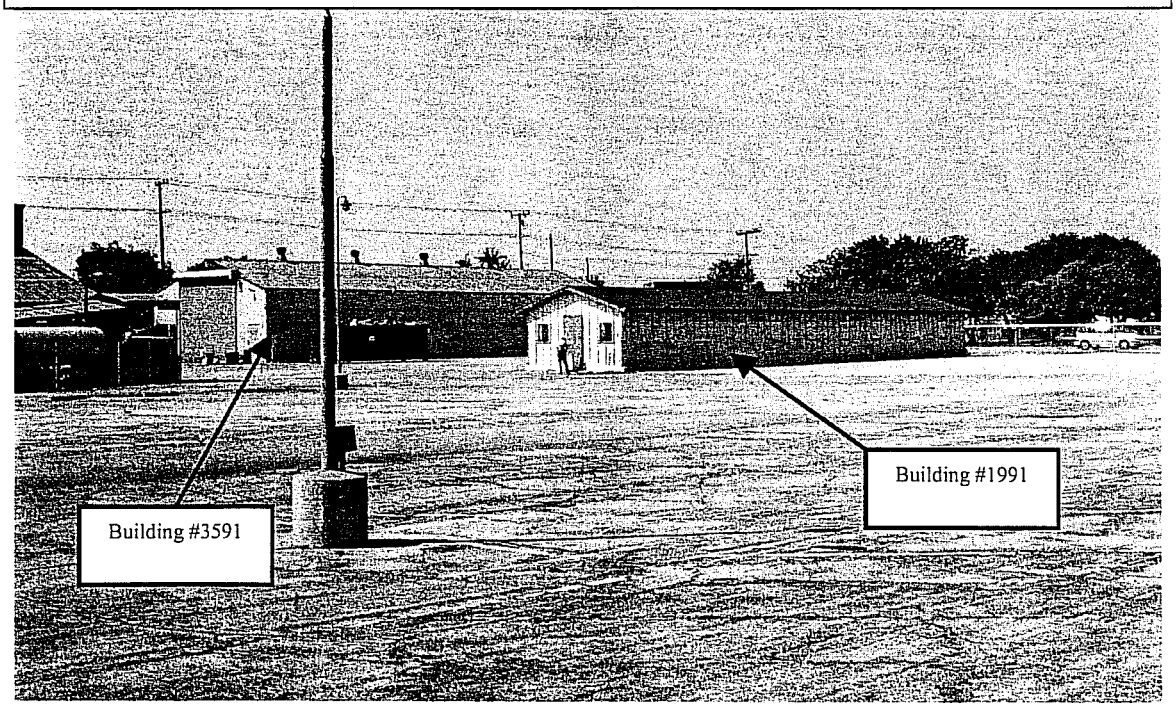


Figure 103
Buildings 1991 and 3591
(looking southeast)

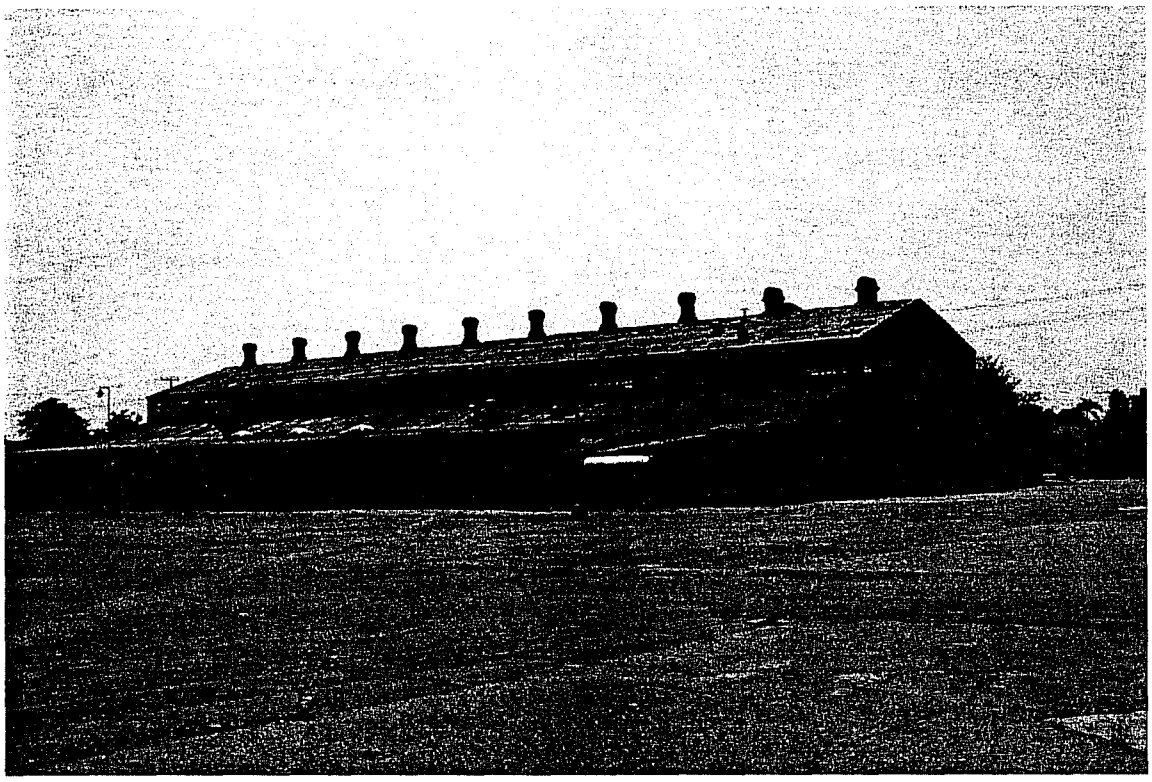


Figure 104
Building 2637
North elevation of Steam Laundry
(looking southeast)

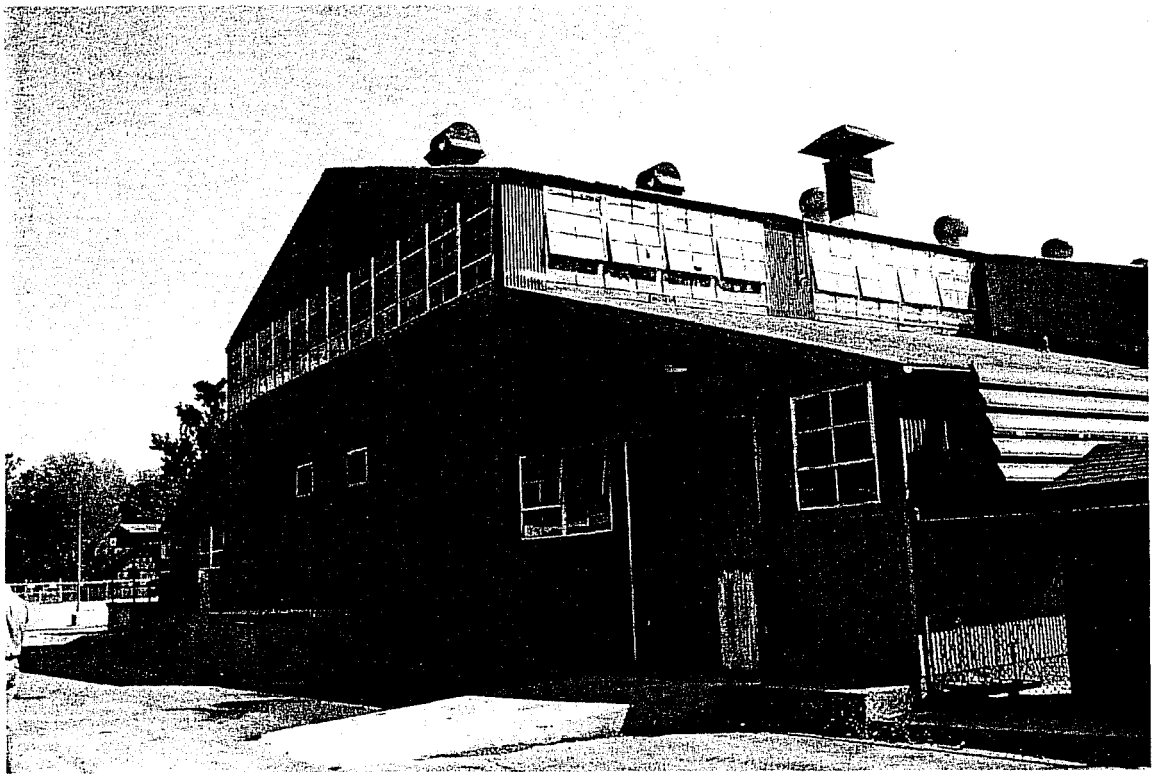


Figure 105
Building 2637
West Elevation of the Steam Laundry
(looking east)

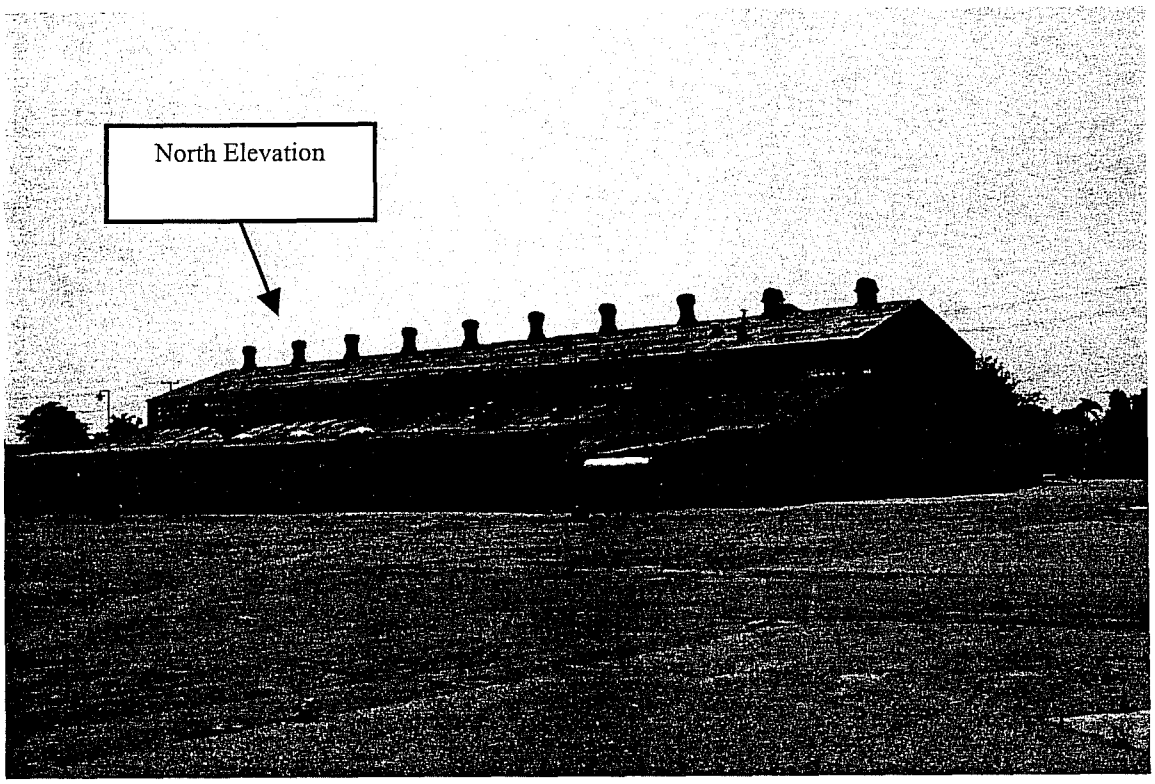


Figure 106
Building 2637
North elevation of Steam Laundry Building

(looking southeast)

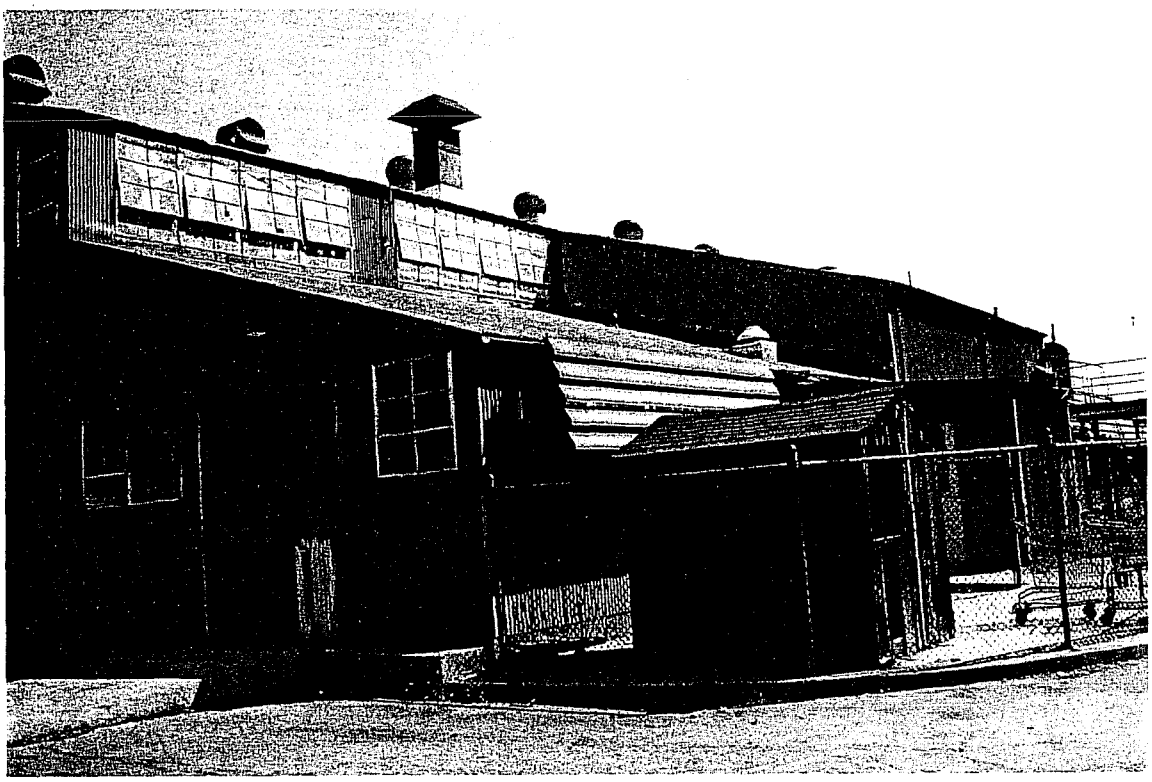


Figure 107
Building 2637
South elevation of Steam Laundry Building
(looking northeast)

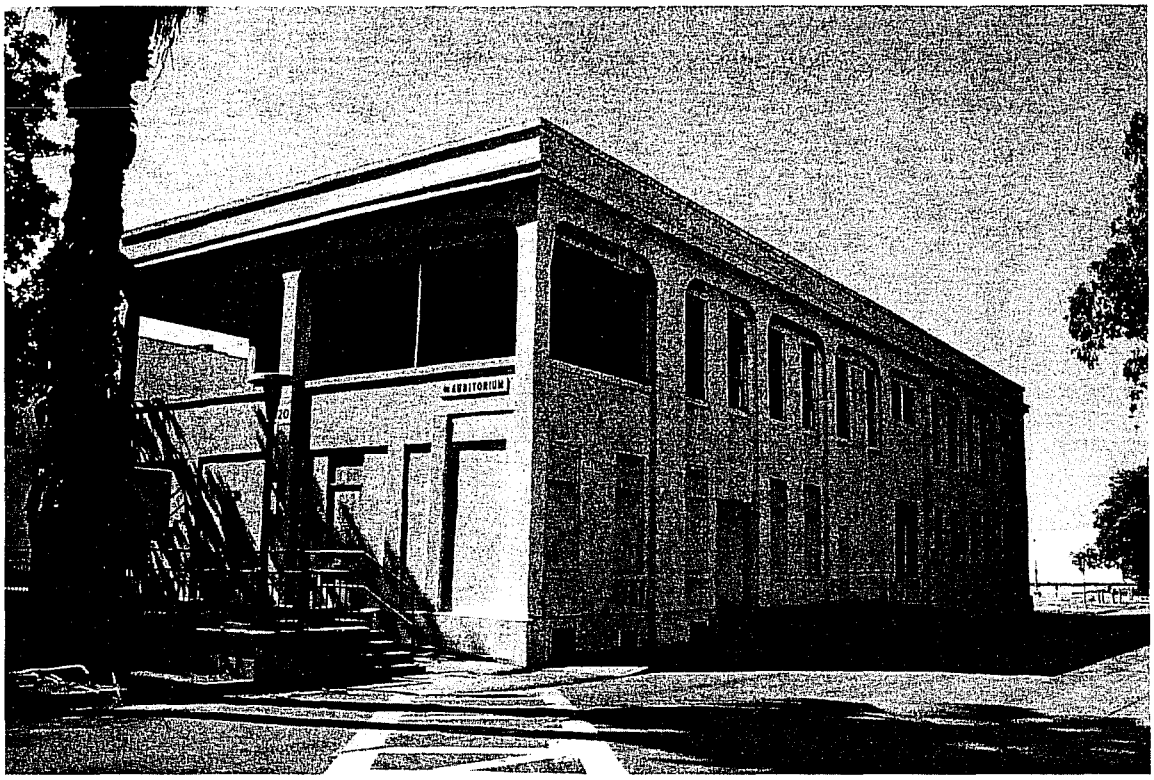


Figure 108
Building #1260
North and west elevations (looking southwest)



Figure 109
Building 1260
West elevation
(looking east)



Figure 110
Building 1260
South elevation
(looking northwest)

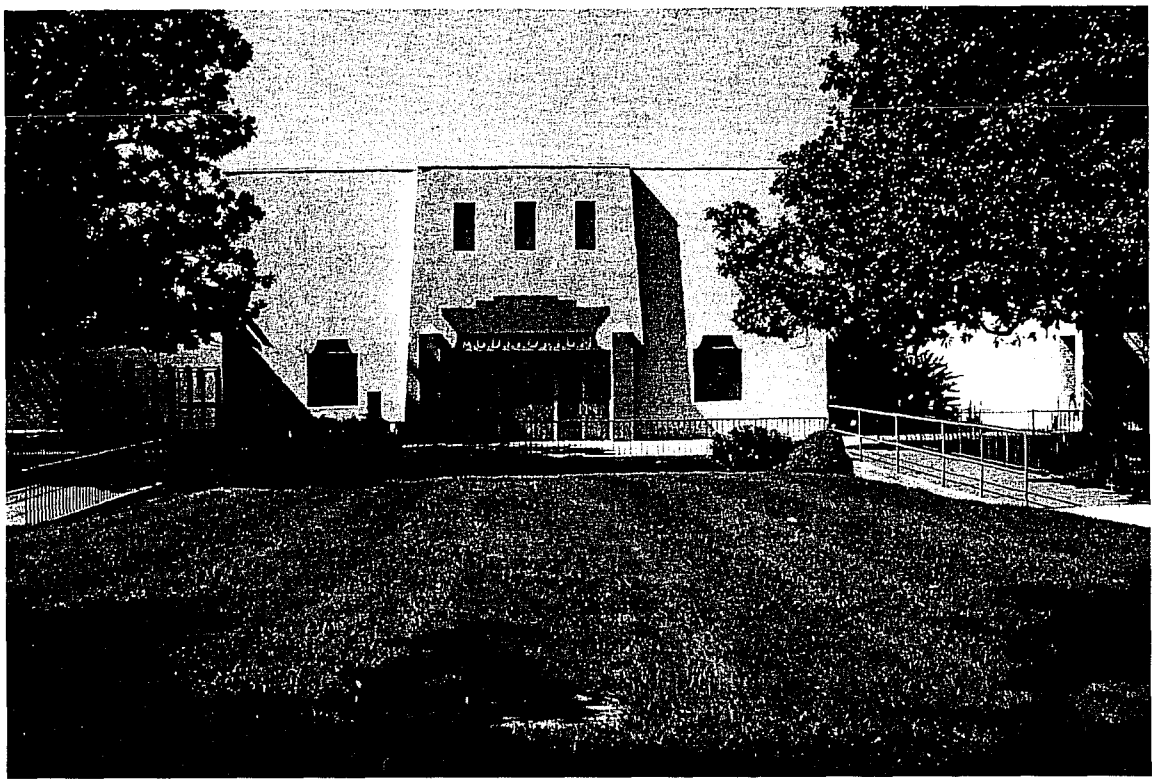


Figure 111
Building 1261
East elevation
(looking west)

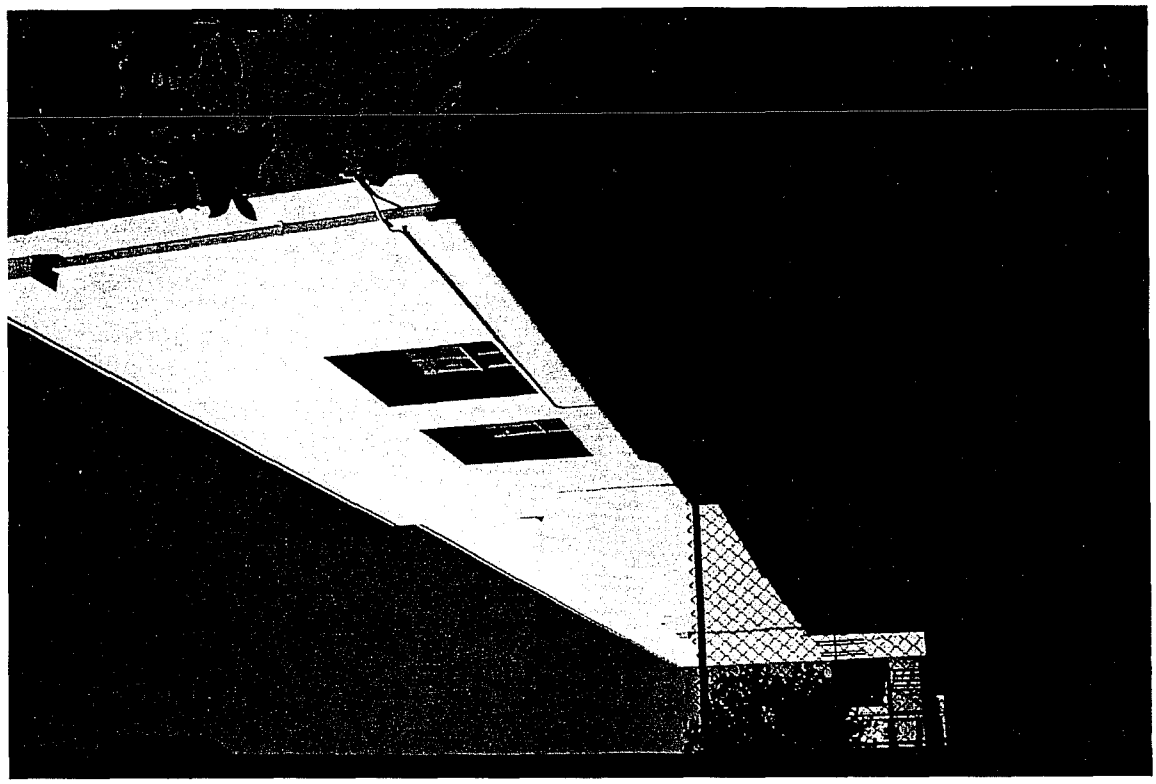


Figure 112
Building 1261
South elevation
(looking northwest)

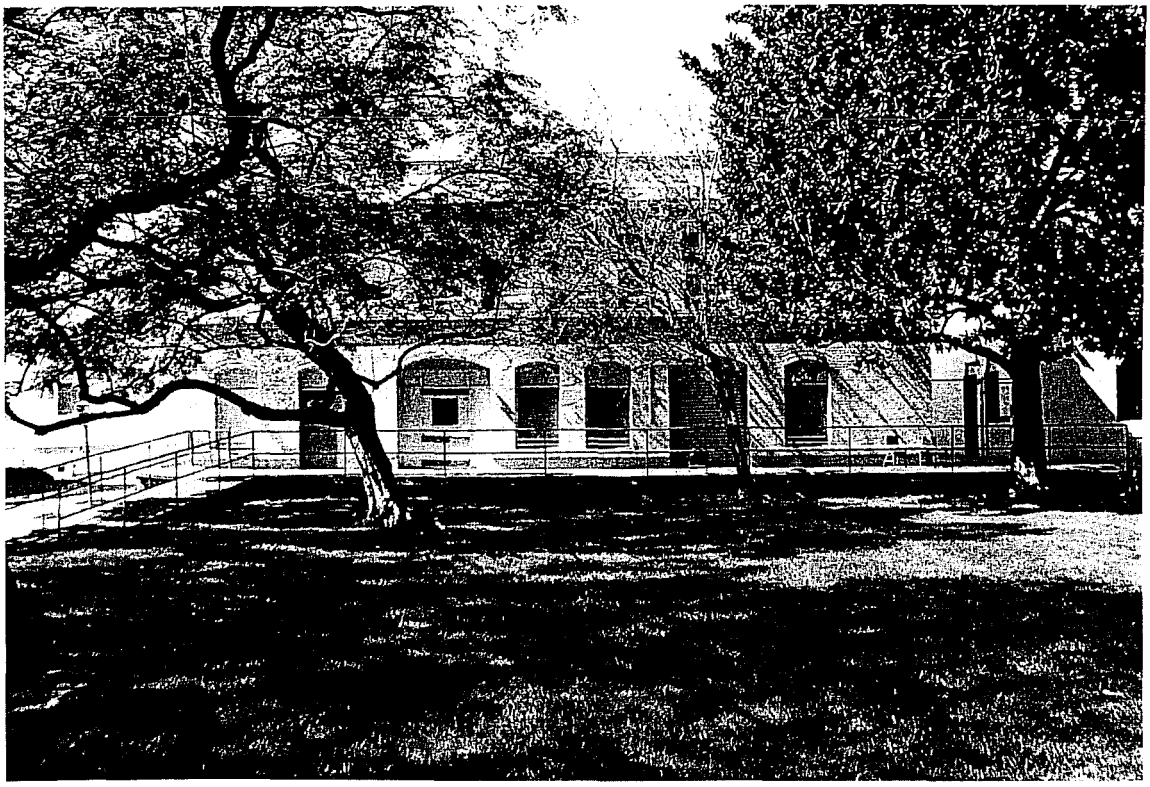


Figure 113
Building 1262
East elevation
(looking west)

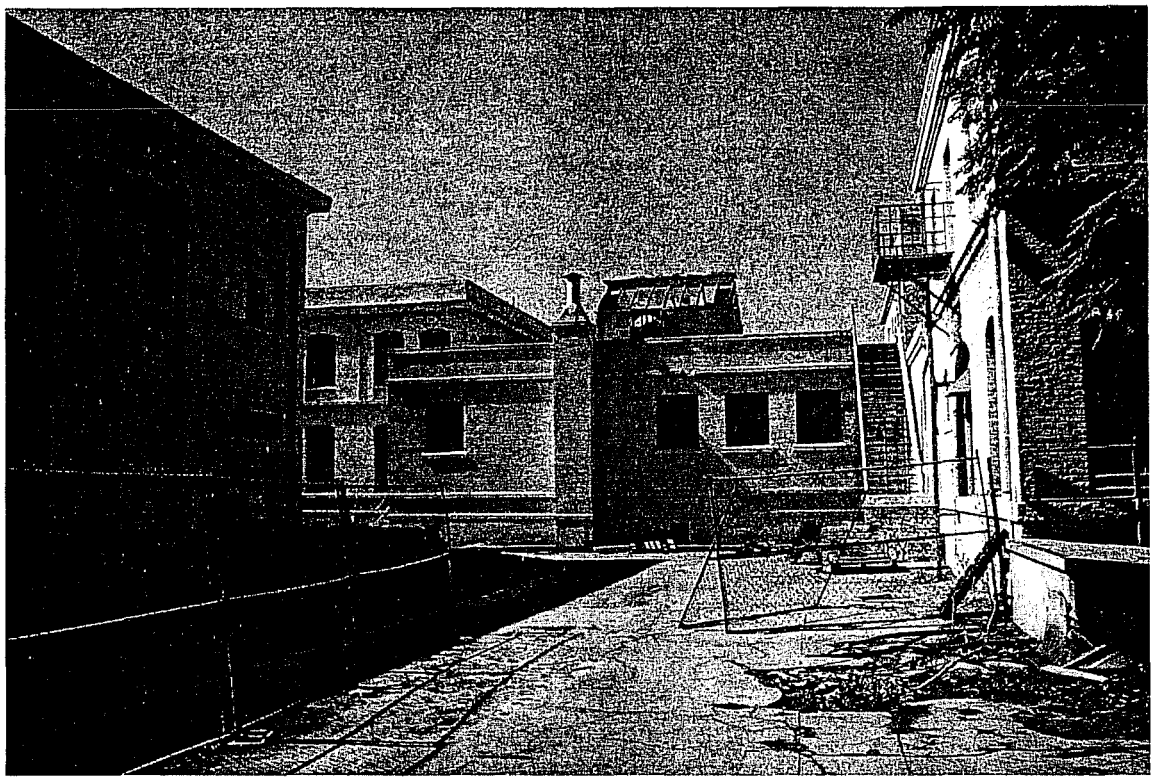


Figure 114
Building 1262
East elevation of kitchen wing
(looking west)

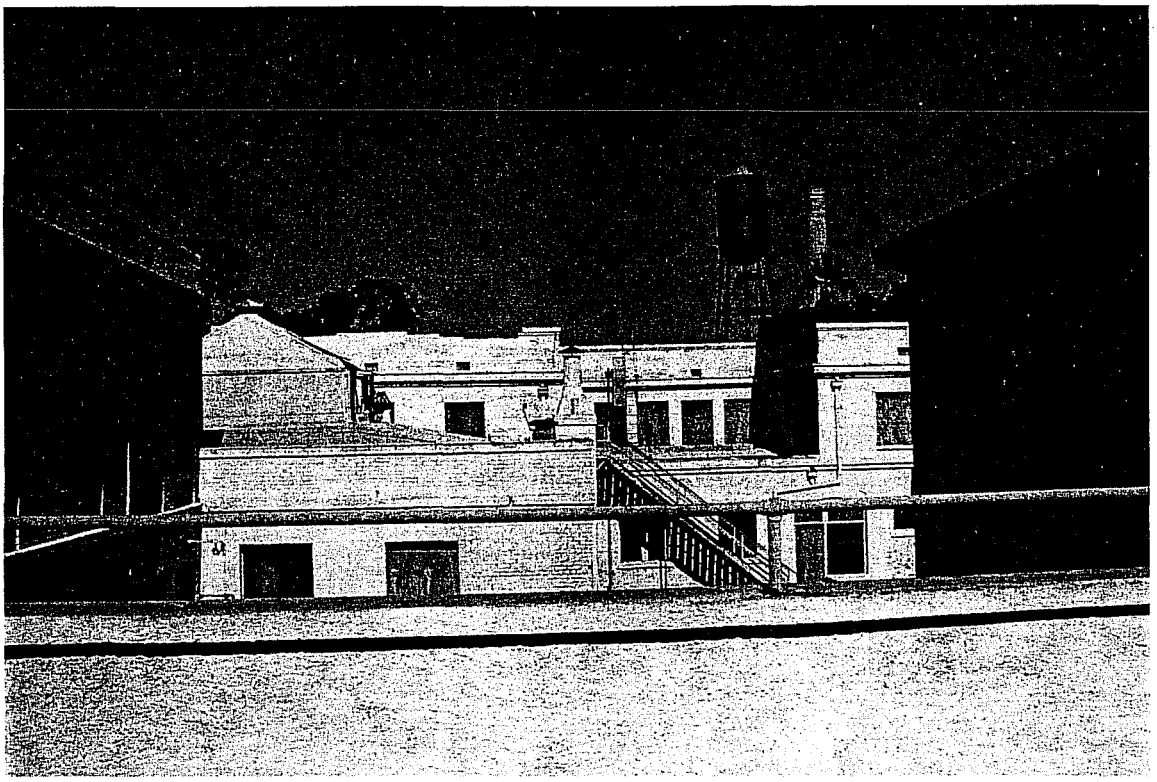


Figure 115
Building 1262
South elevation of recessed wing
(looking north)

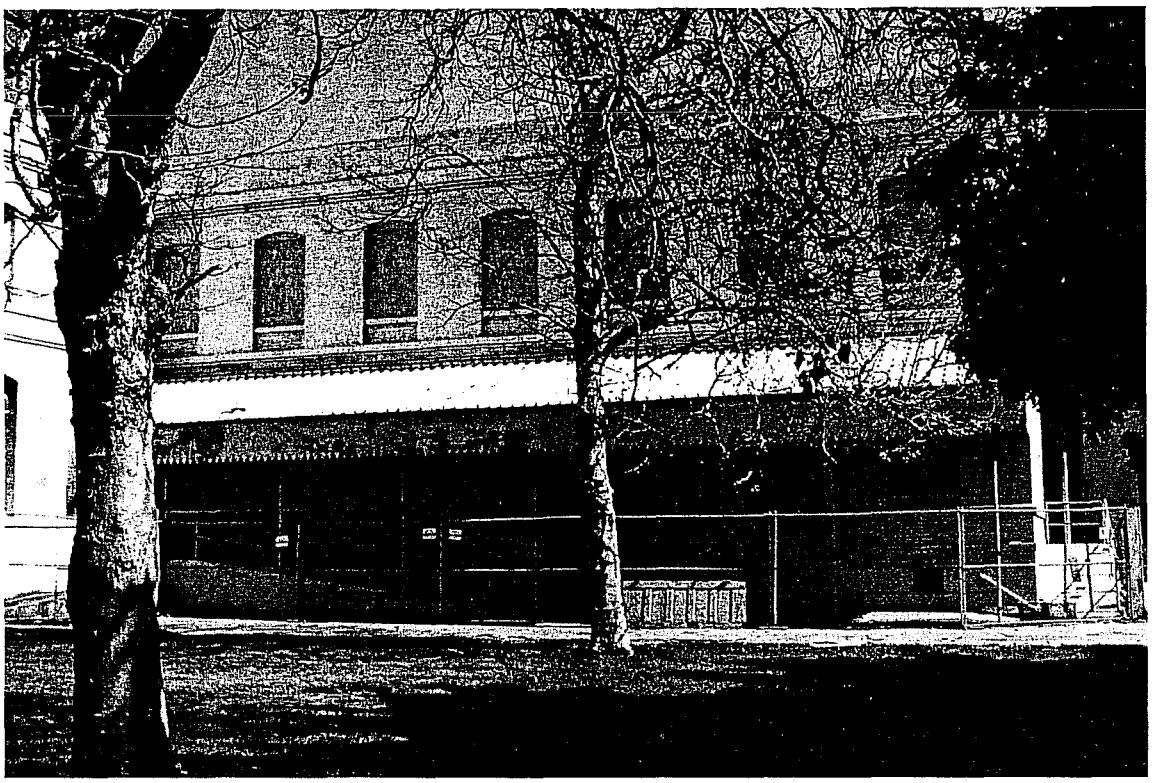


Figure 116
Building 1262
South end of west elevation
(looking east)



Figure 117
Building 1262
Projecting wing on west elevation
(looking north)

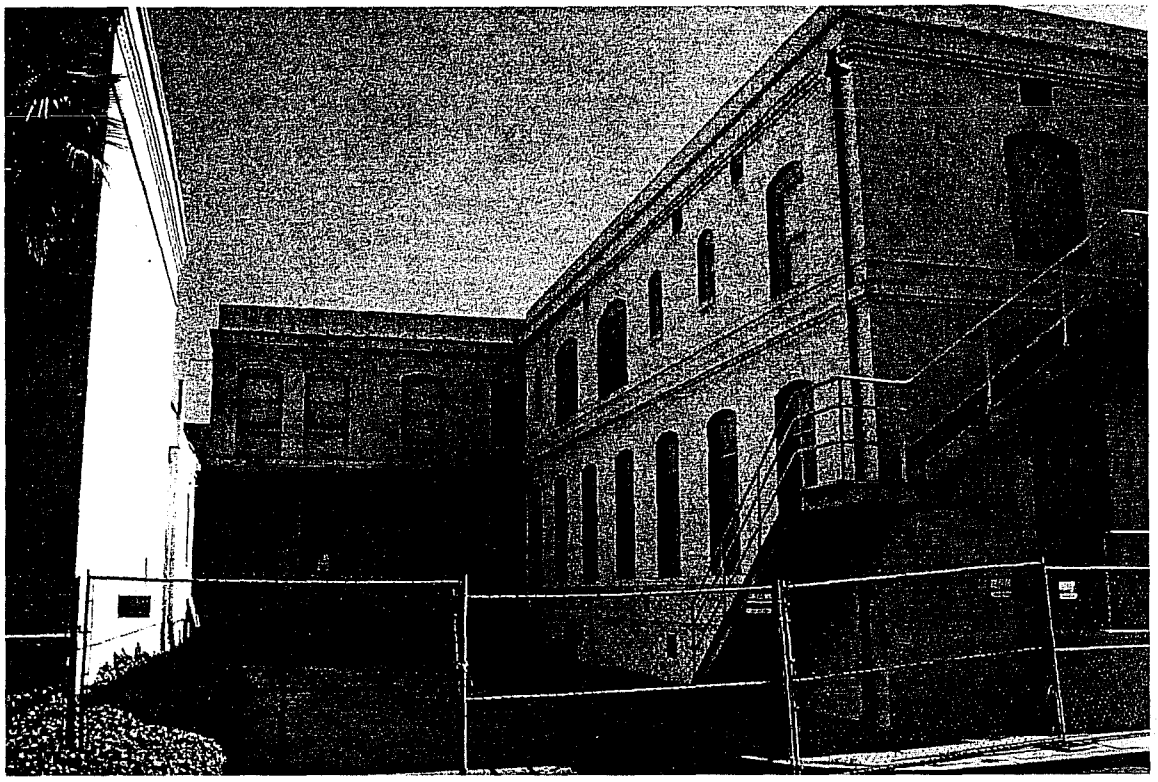


Figure 118
Building 1262
North side of u-shaped elevation
(looking east)

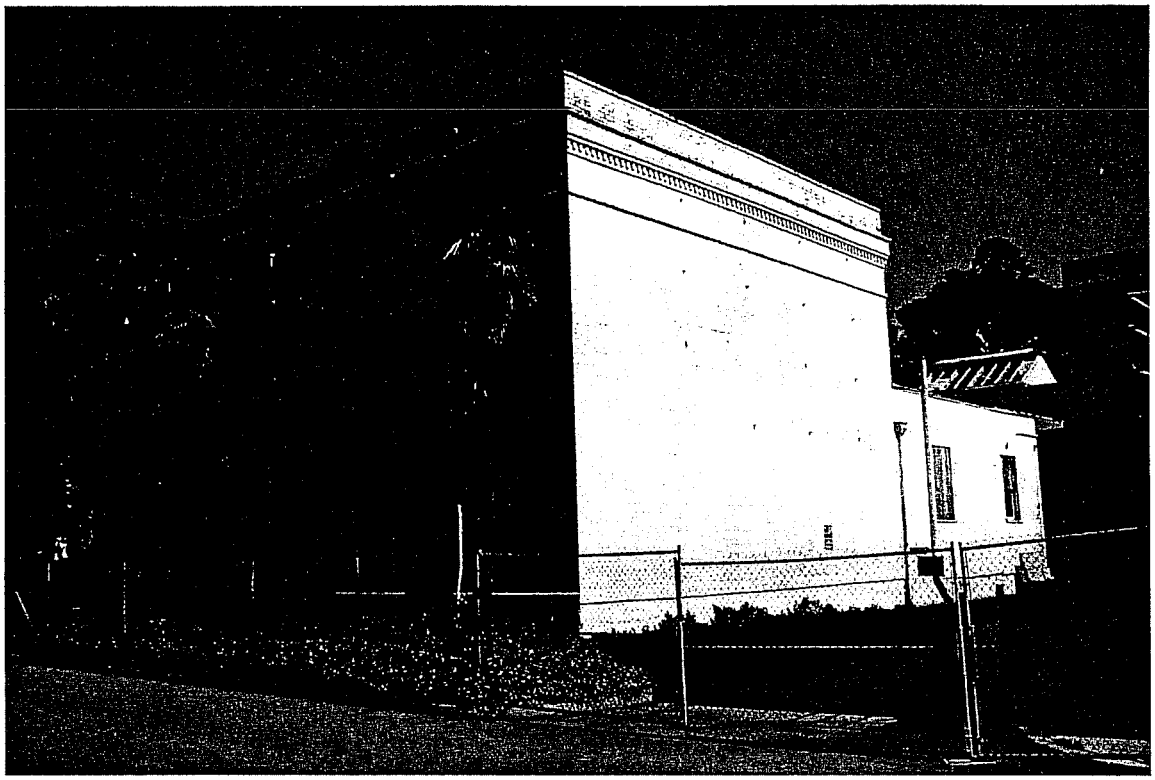


Figure 119
Building 1263
(looking northeast)



Figure 120
Building 1262/1263
Loading bay at north end of west elevation
(looking southeast)

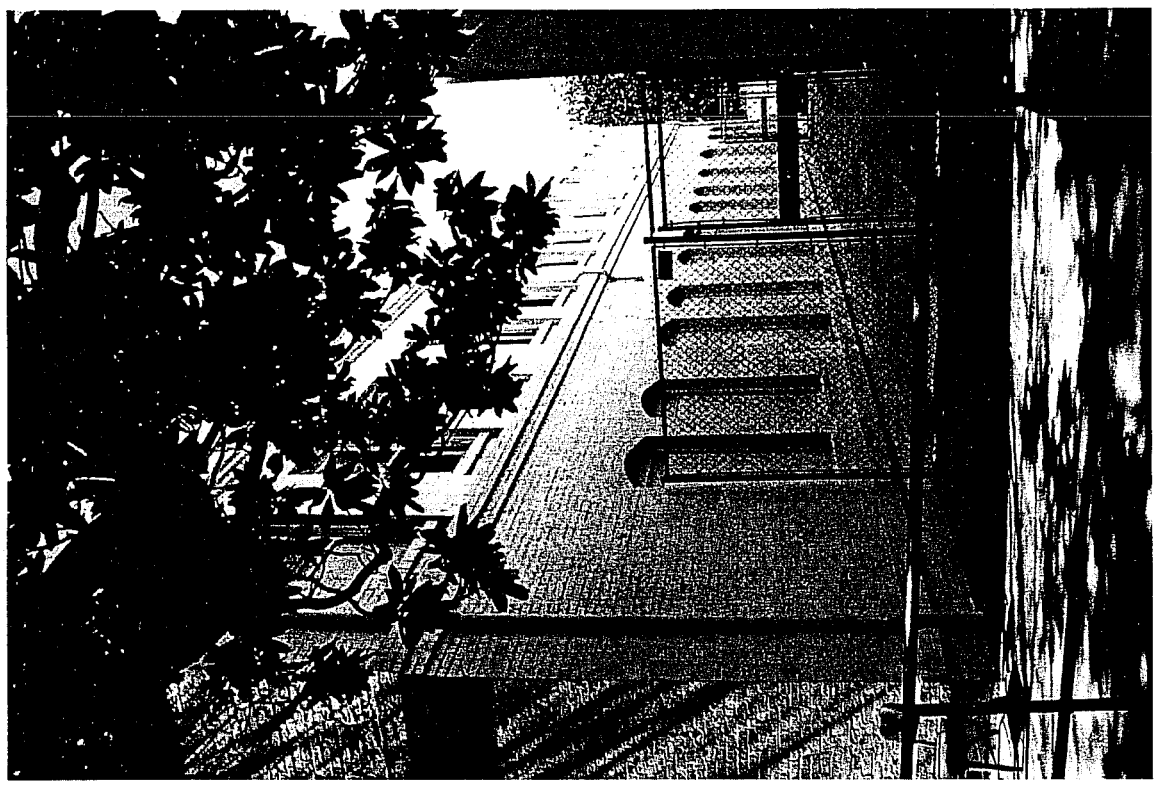


Figure 121
Building 1262/1263
East end of north elevation
(looking west)

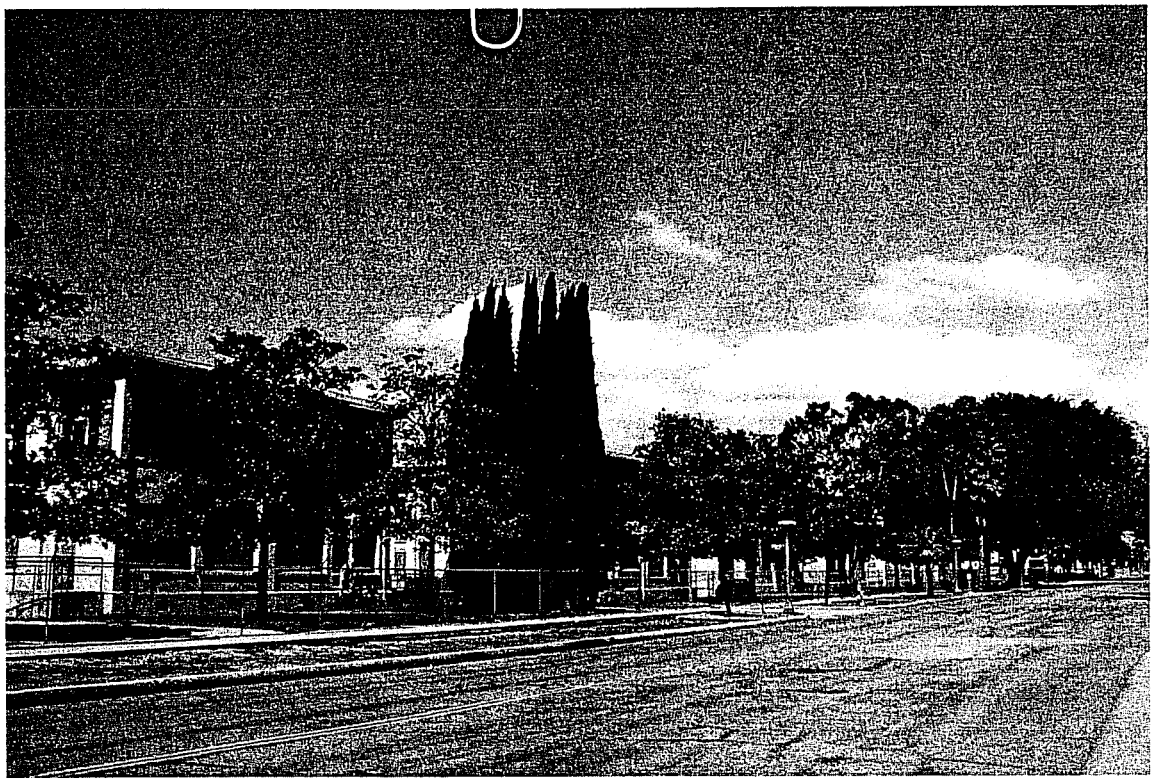


Figure 122
Buildings 1184-1188
Erickson Avenue elevation
(looking northwest)

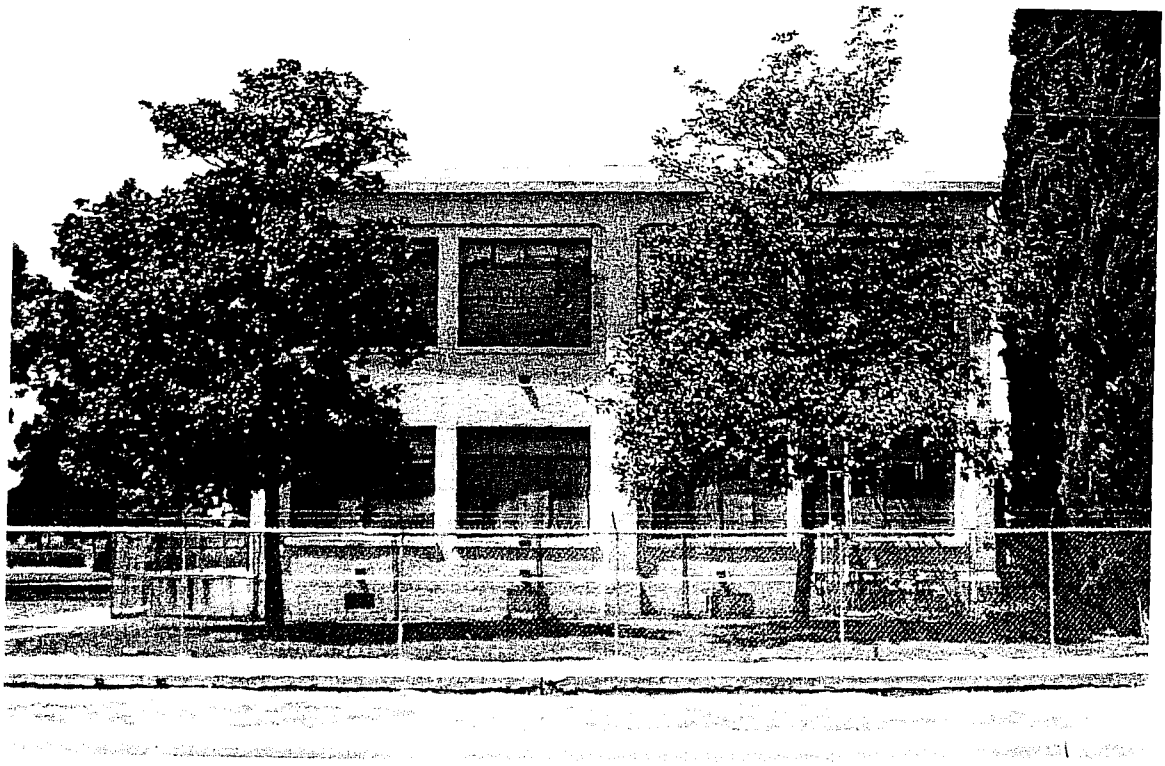


Figure 123
Building 1188
East elevation
(looking west)



Figure 124
Building 1187
West elevation
(looking northeast)

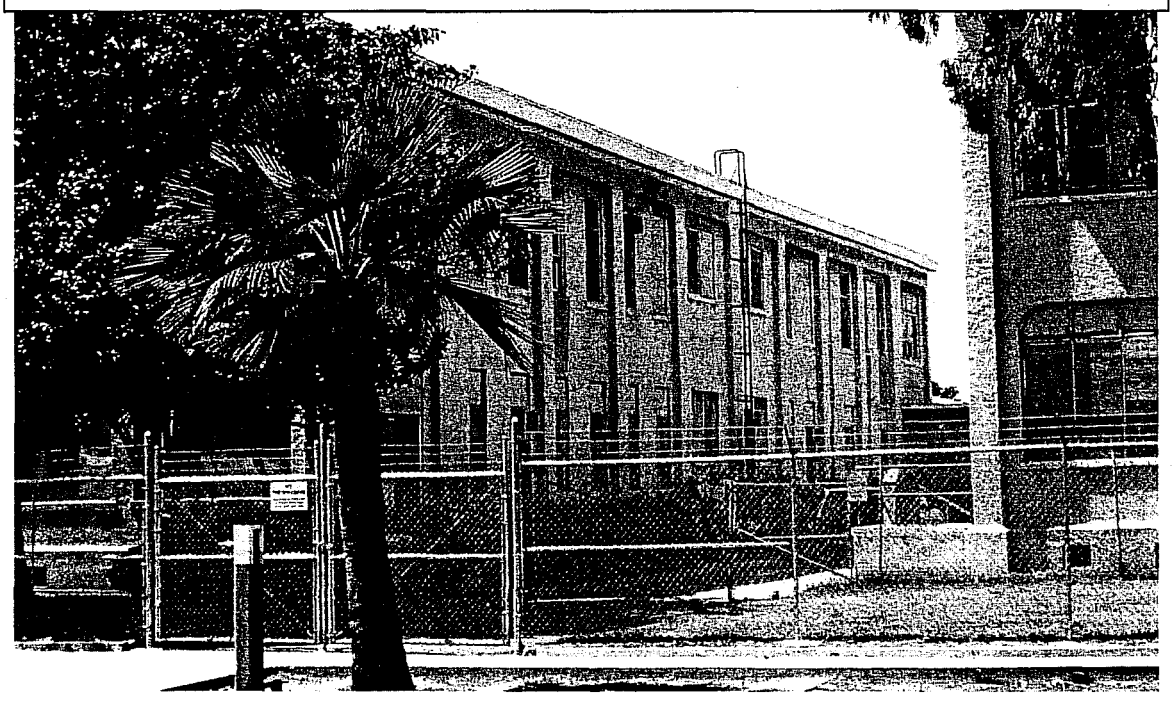


Figure 125
Buildings 1187 and 1188
North elevation
(looking southwest)



Figure 126
Buildings 1185 – 1186
West elevation
(looking east)

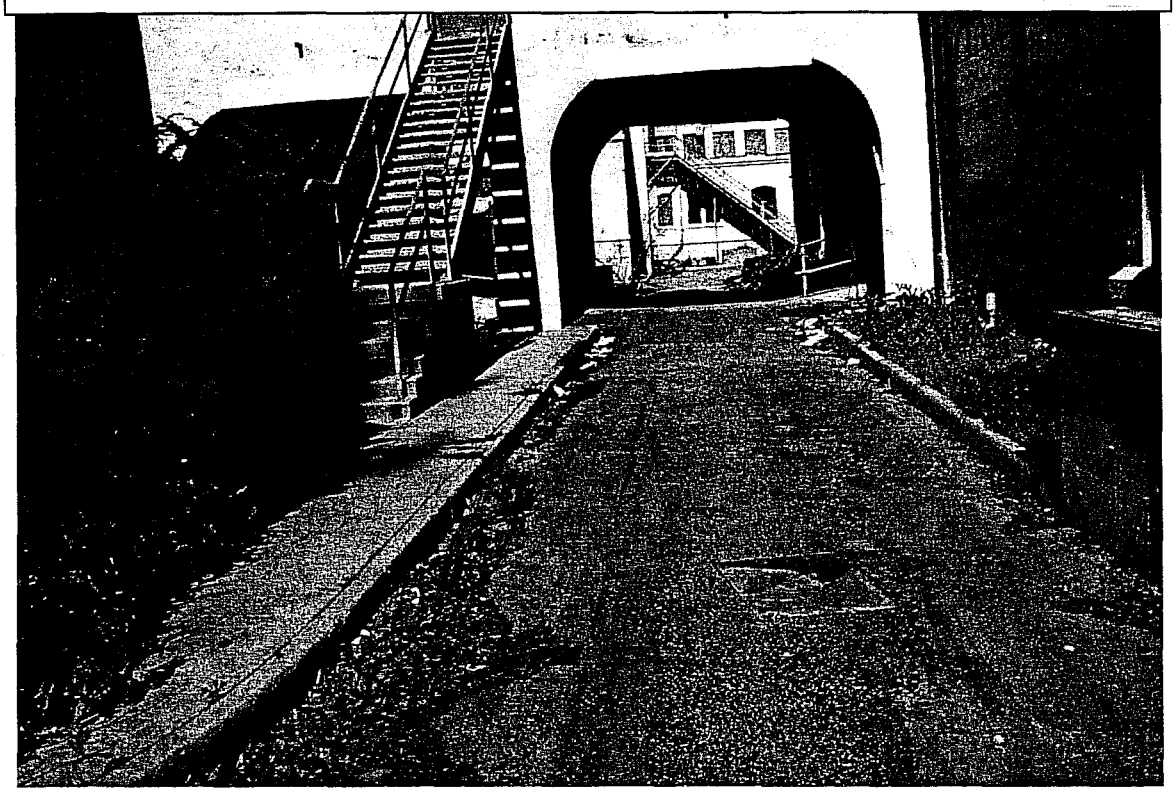


Figure 127
Bridge linking general wards with Building 1262
(looking north)

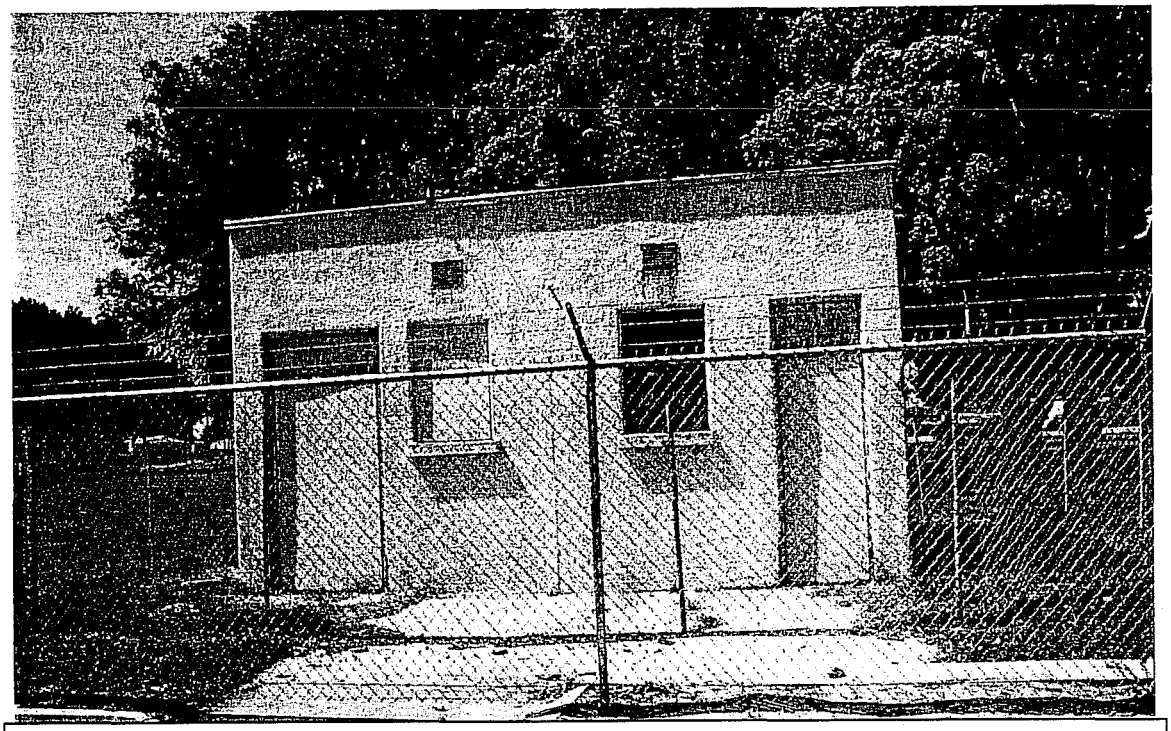


Figure 128
Building 1256
East elevation of Toilet Building
(looking west)

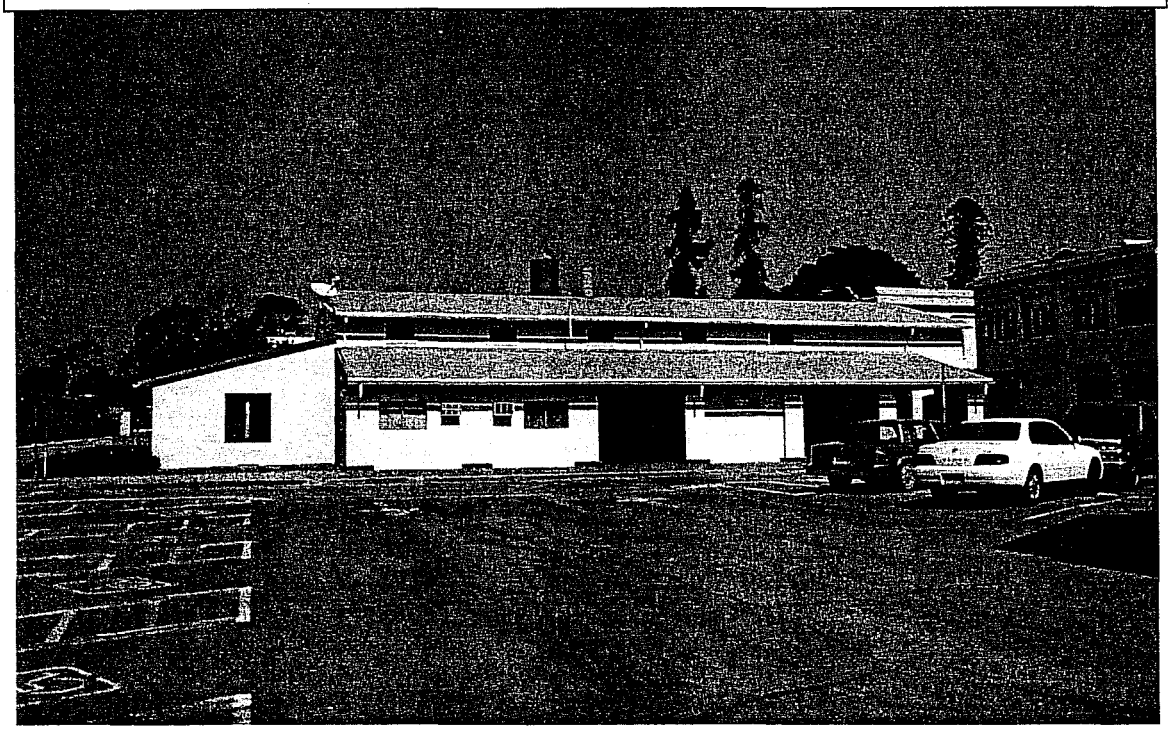


Figure 129
Building 1264
South elevation
(looking north)

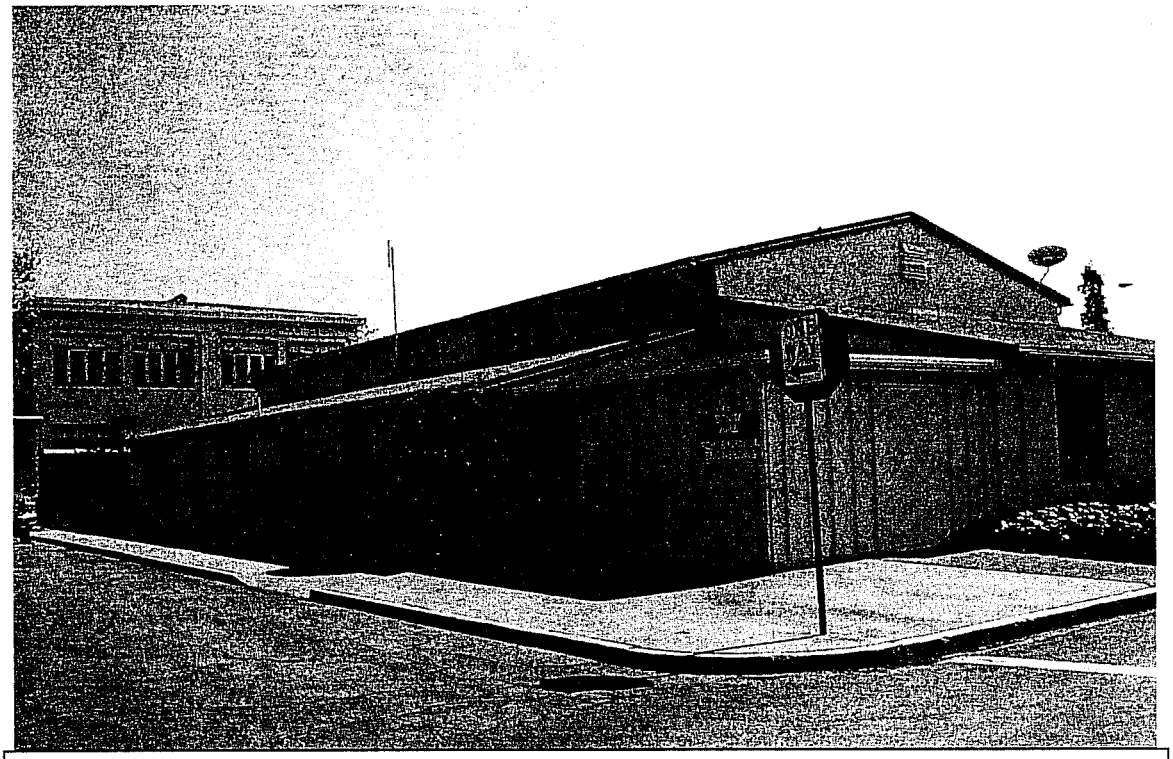


Figure 130
Building 1264
West and north elevations
(looking southwest)

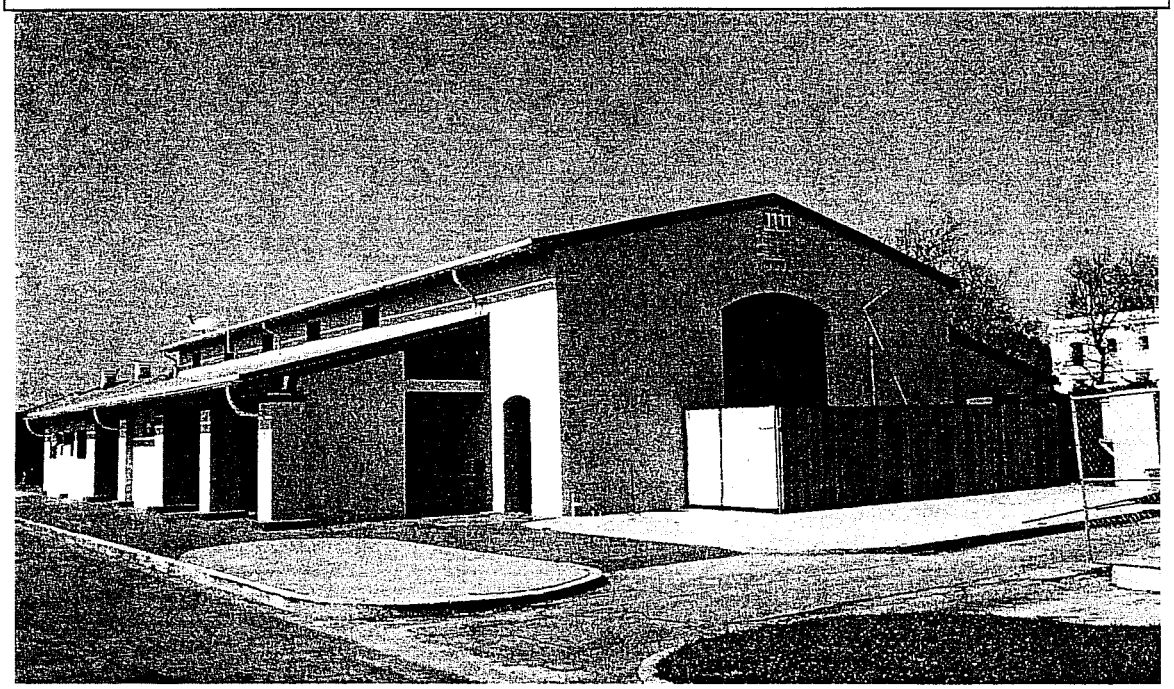


Figure 131
Building 1264
East elevation
(looking west)



Figure 132
Building 3390
View of west and north elevations
(looking southeast)



Figure 133
Building 3390
View of east and south elevations
(looking northwest)

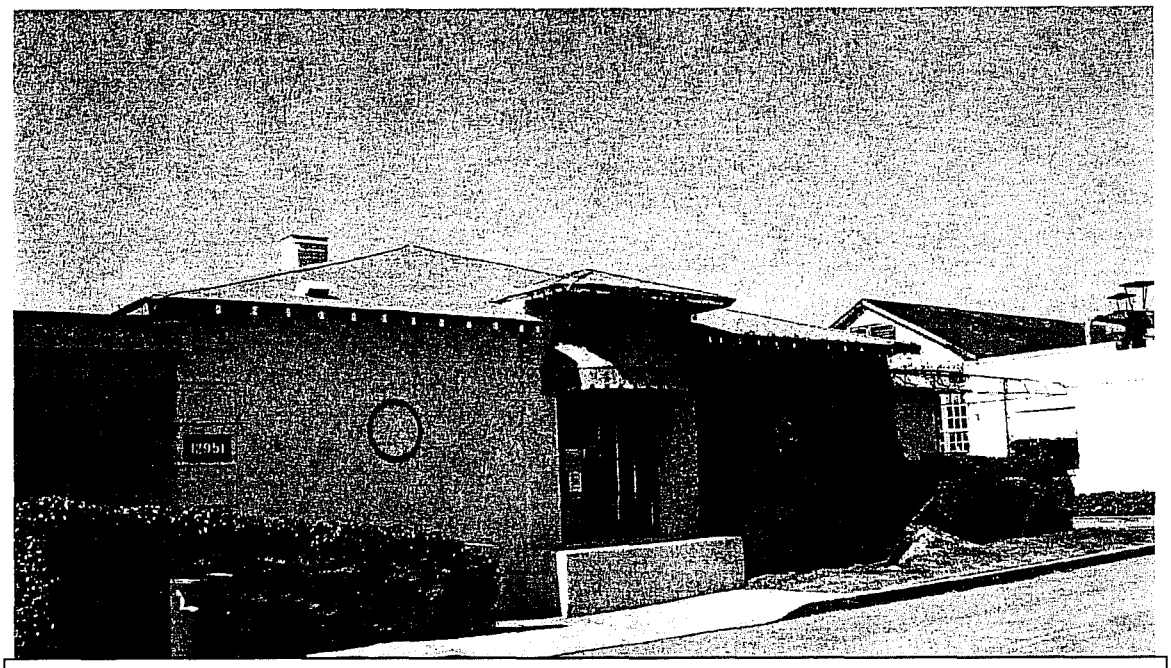


Figure 134
Building 1266
East elevation
(looking northwest)

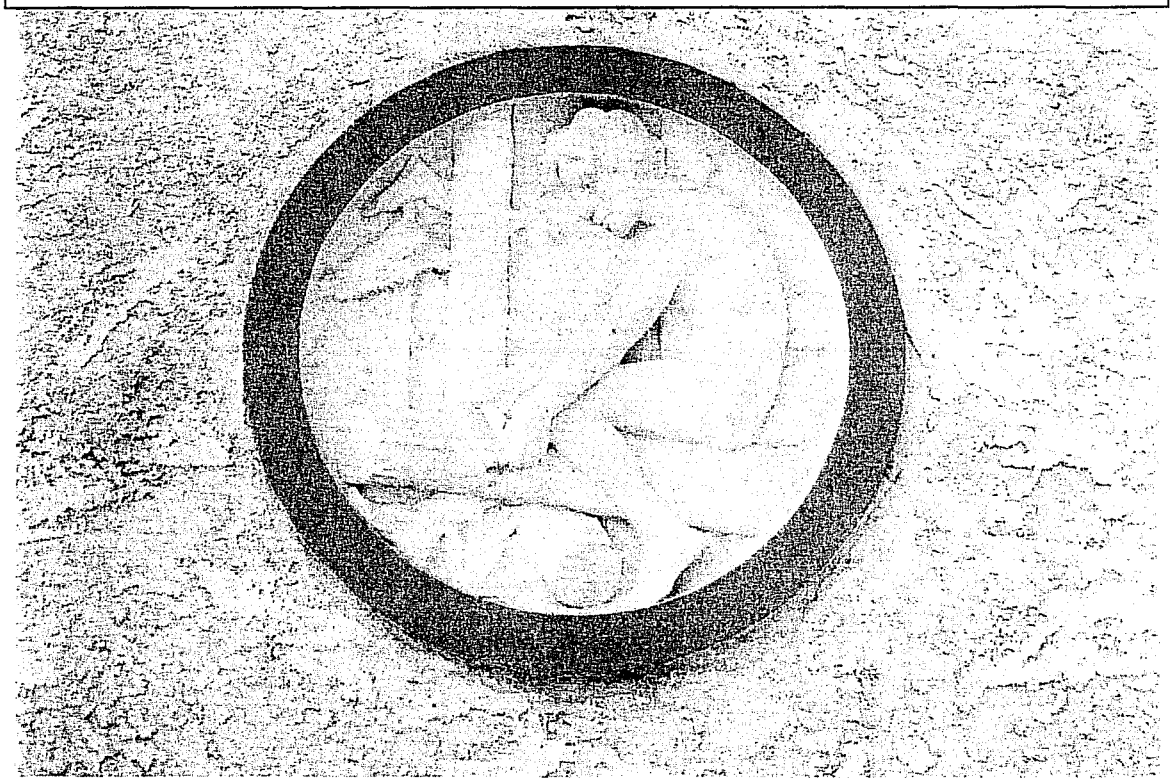


Figure 135
Building 1266
Detail of decorative plaque on east elevation

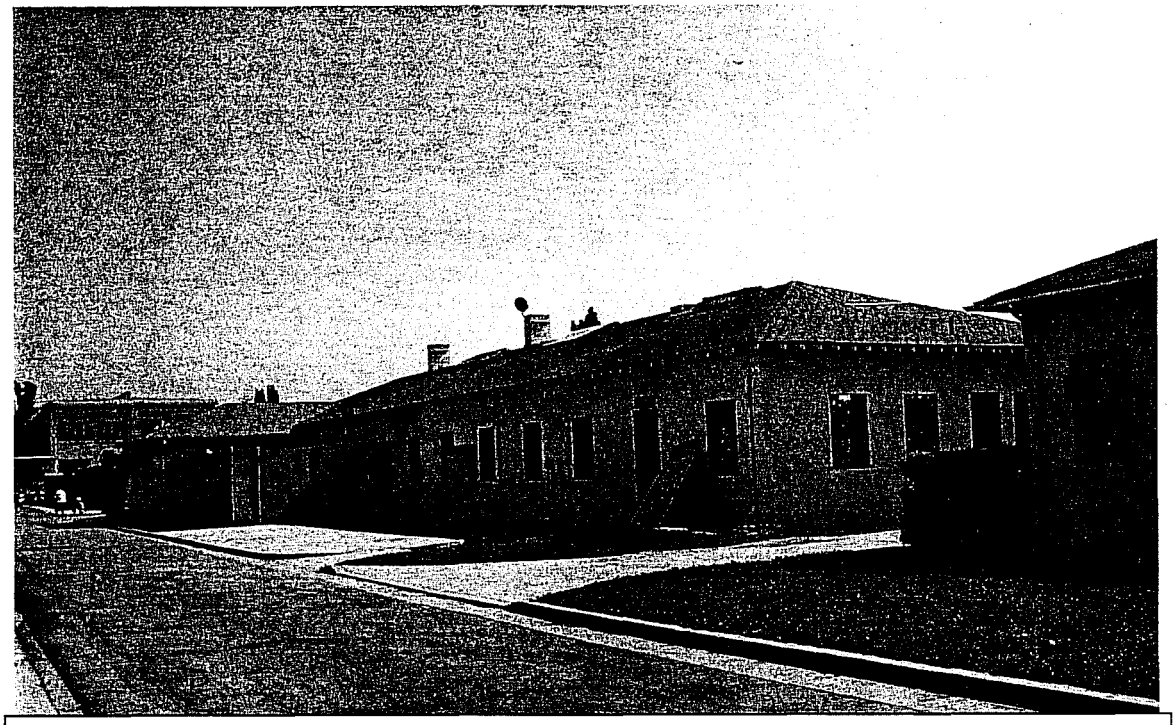


Figure 136
Building 1266
North elevation
(looking southwest)

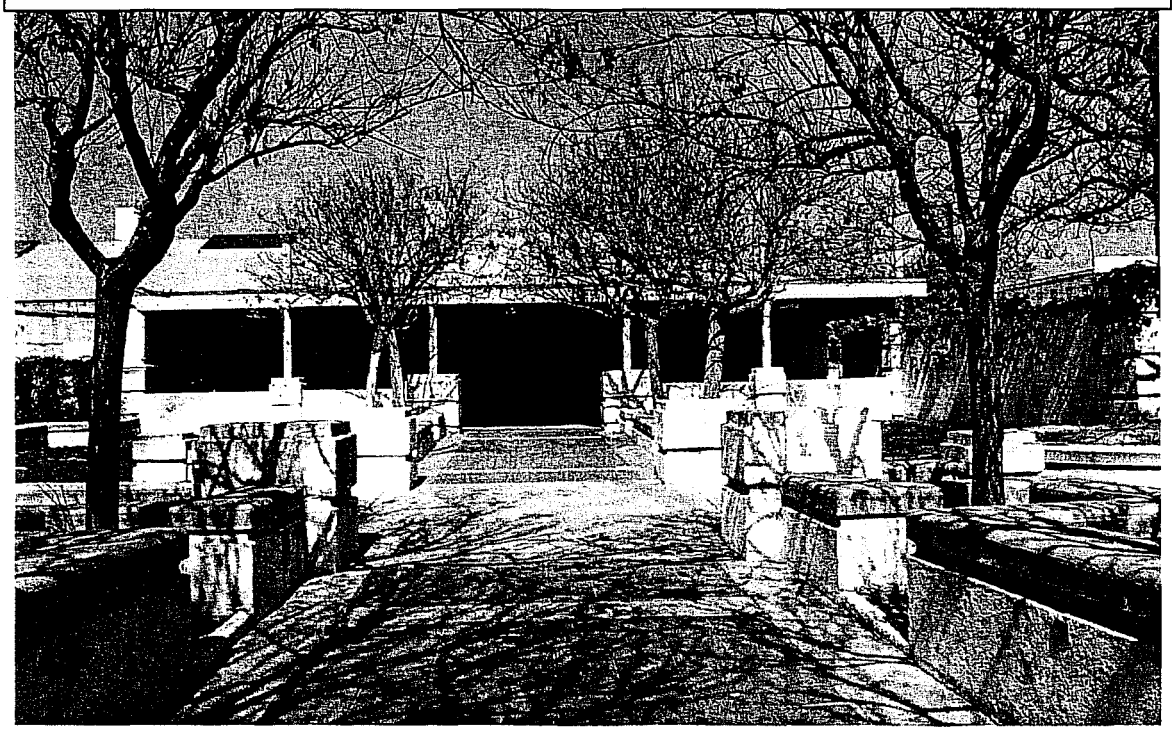


Figure 137
Building 1266
South elevation
(looking north)



Figure 138
Building 1266
Interior of partially demolished building
(looking south)

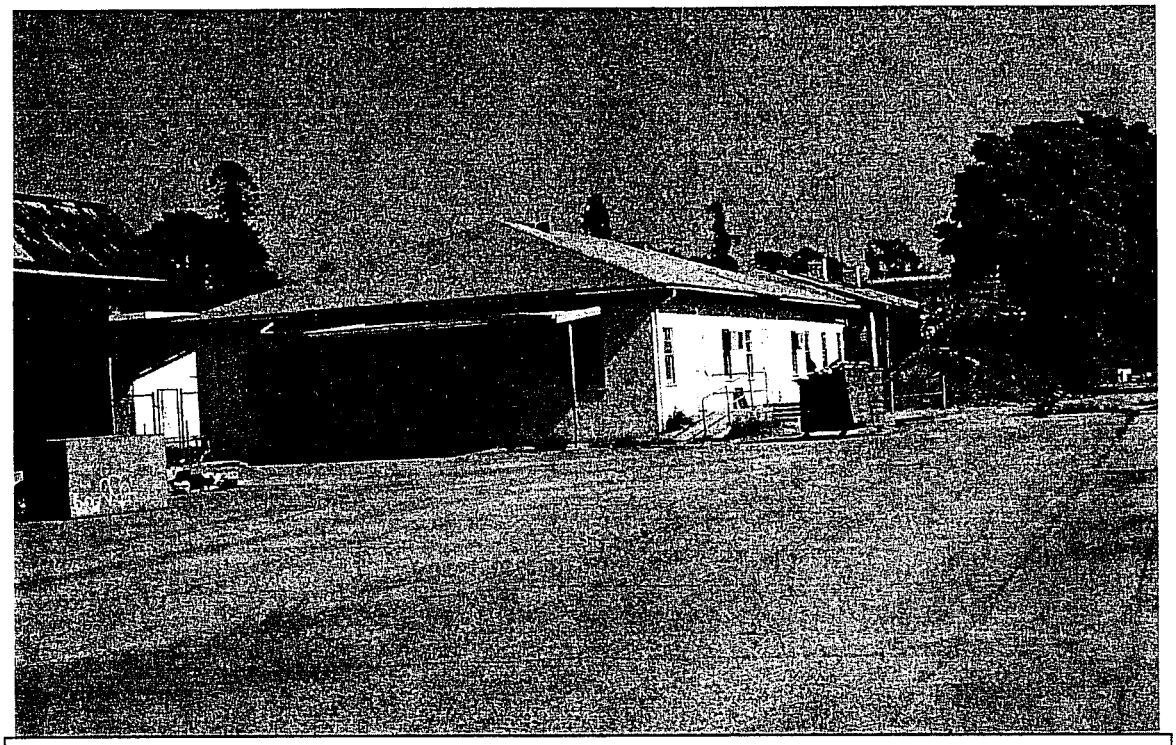


Figure 139
Building 1267
View of west and south elevations
(looking northeast)

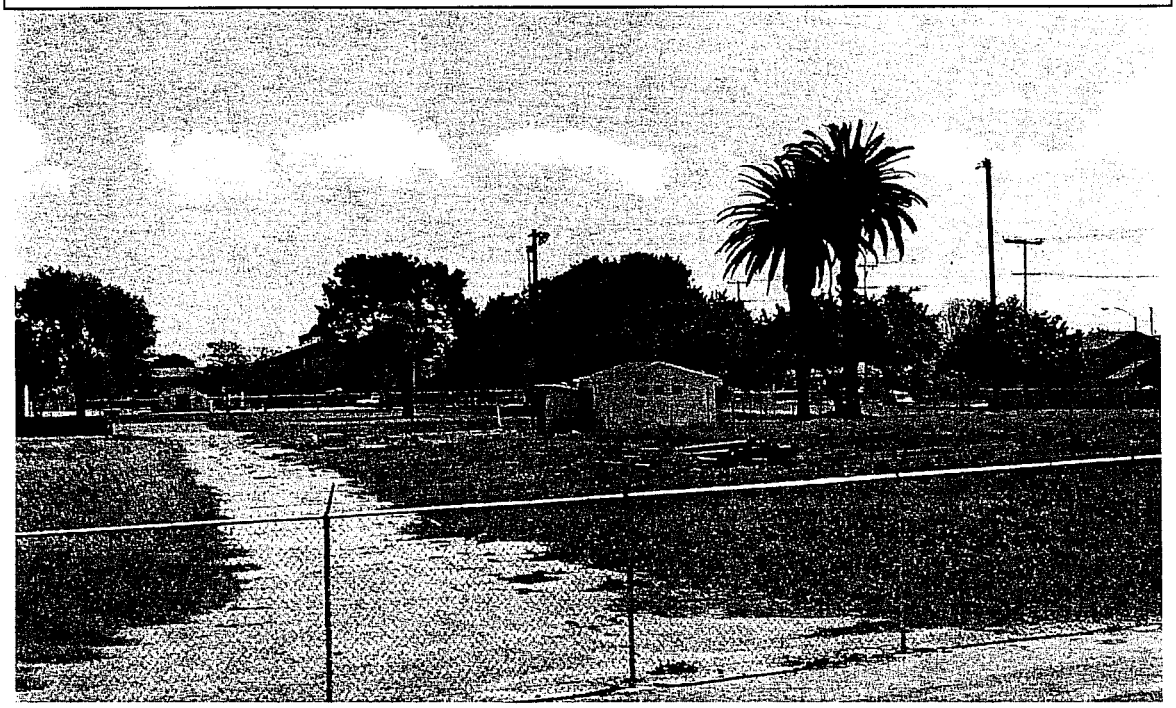


Figure 140
Building 1335 (Brooder House)
(Looking southwest)

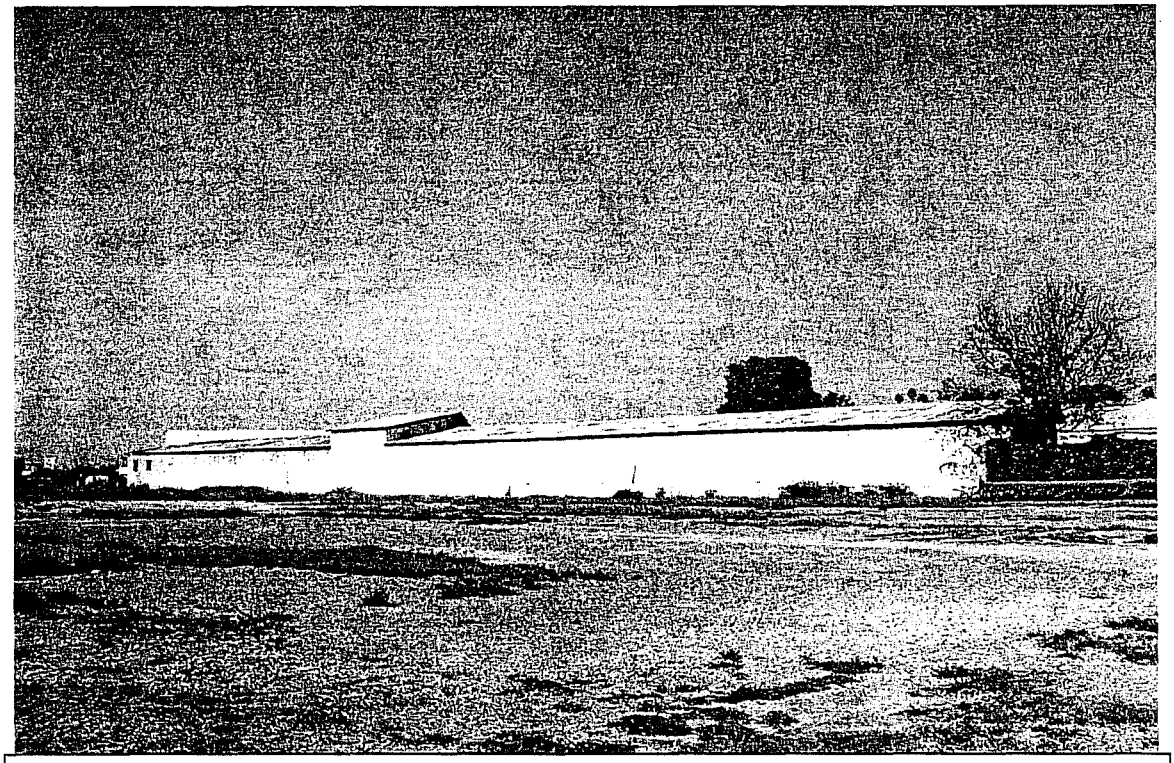


Figure 141
Buildings 1379 and 1421
South elevation
(looking north)

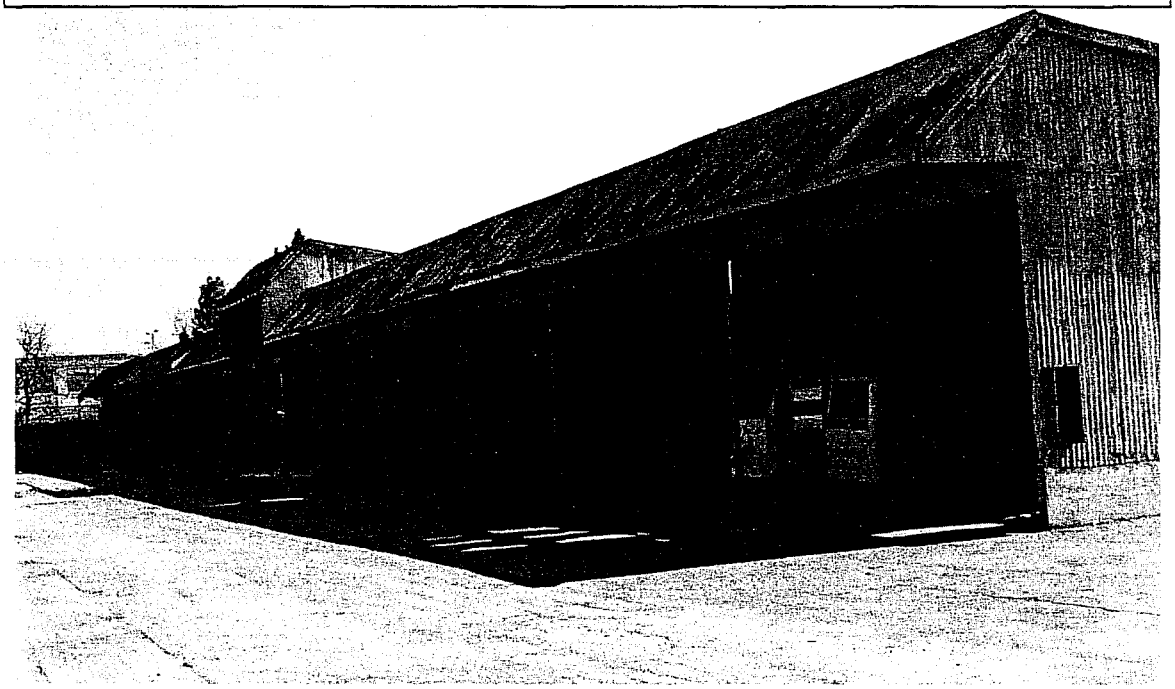


Figure 142
Buildings 1379 and 1421
North elevation
(looking south)

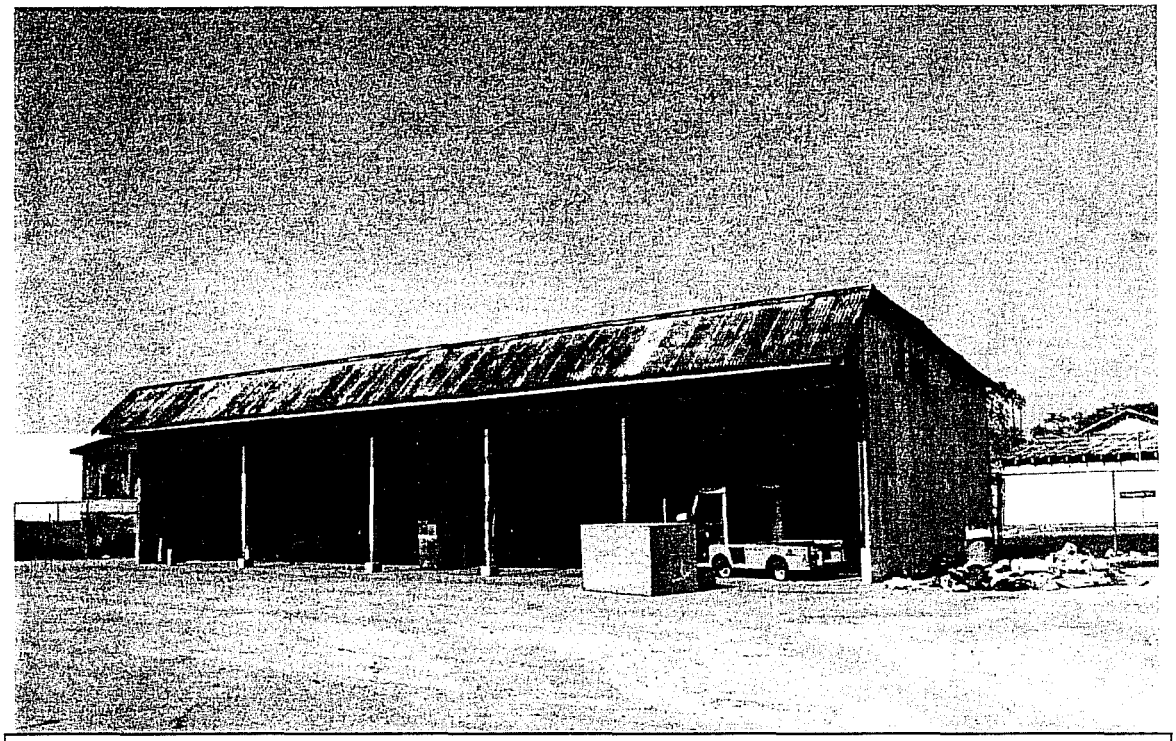


Figure 143
Building 4118
View of south and east elevations
(looking north)

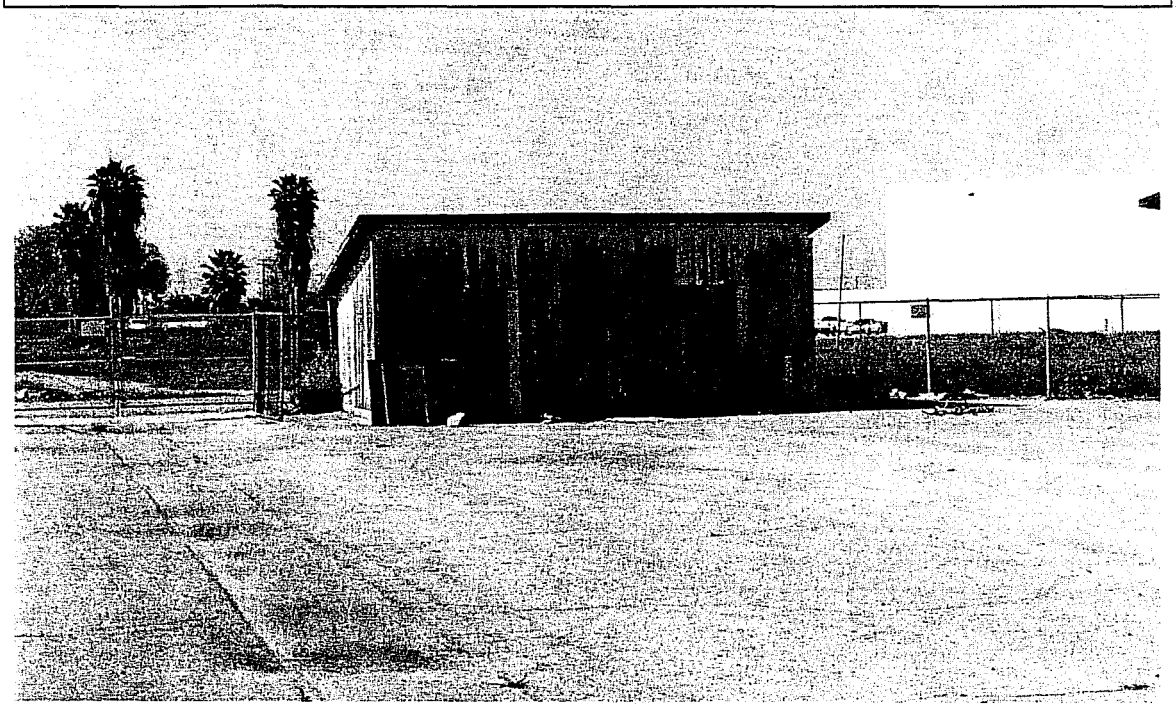


Figure 144
Building 1464
View of south and west elevations
(looking north)

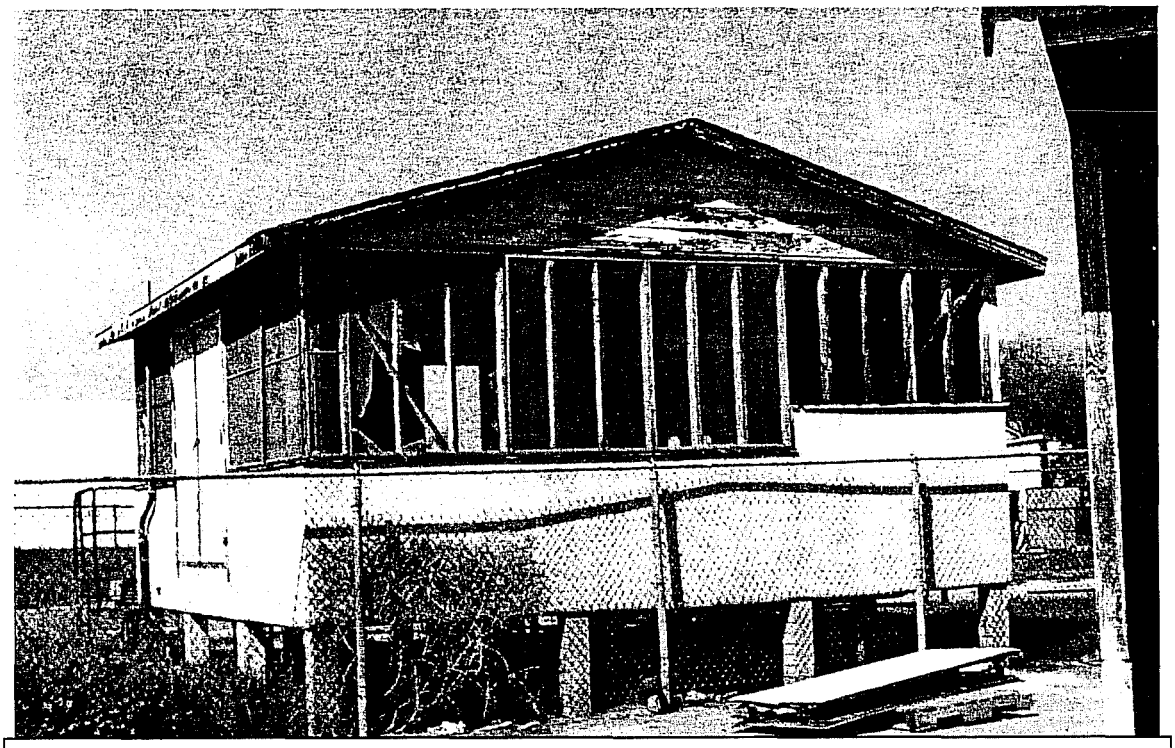


Figure 145
Building 3348
East elevation
(looking north)

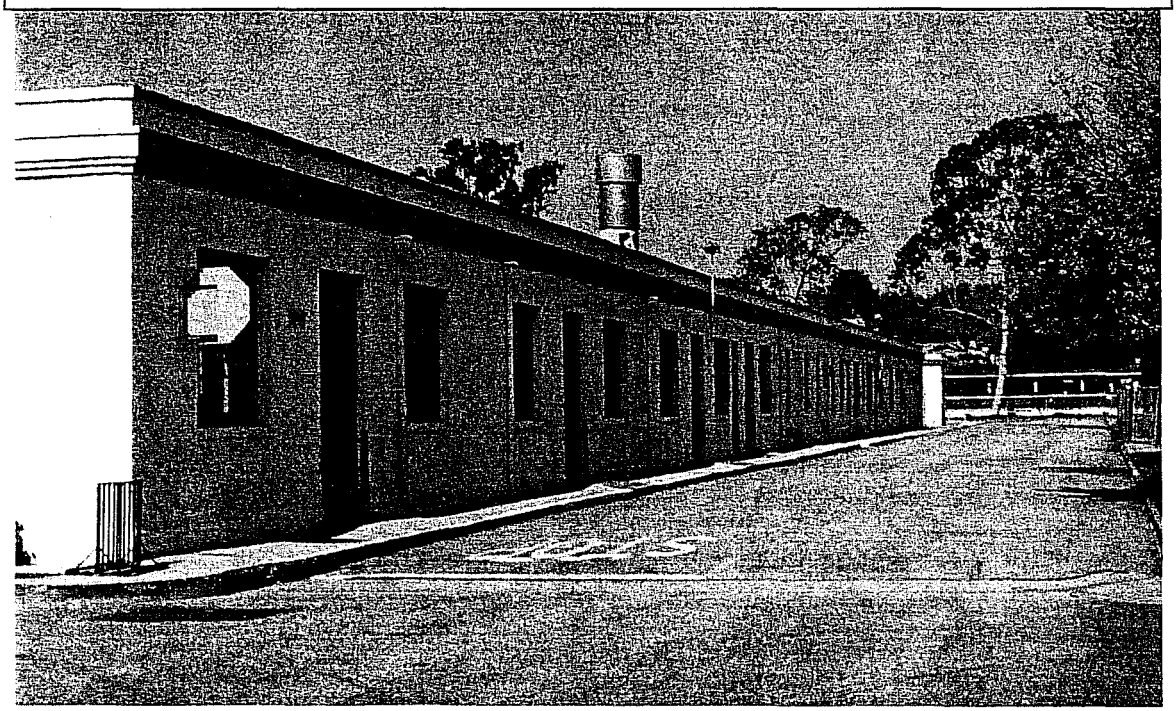


Figure 146
Building 1275
East elevation
(looking west)

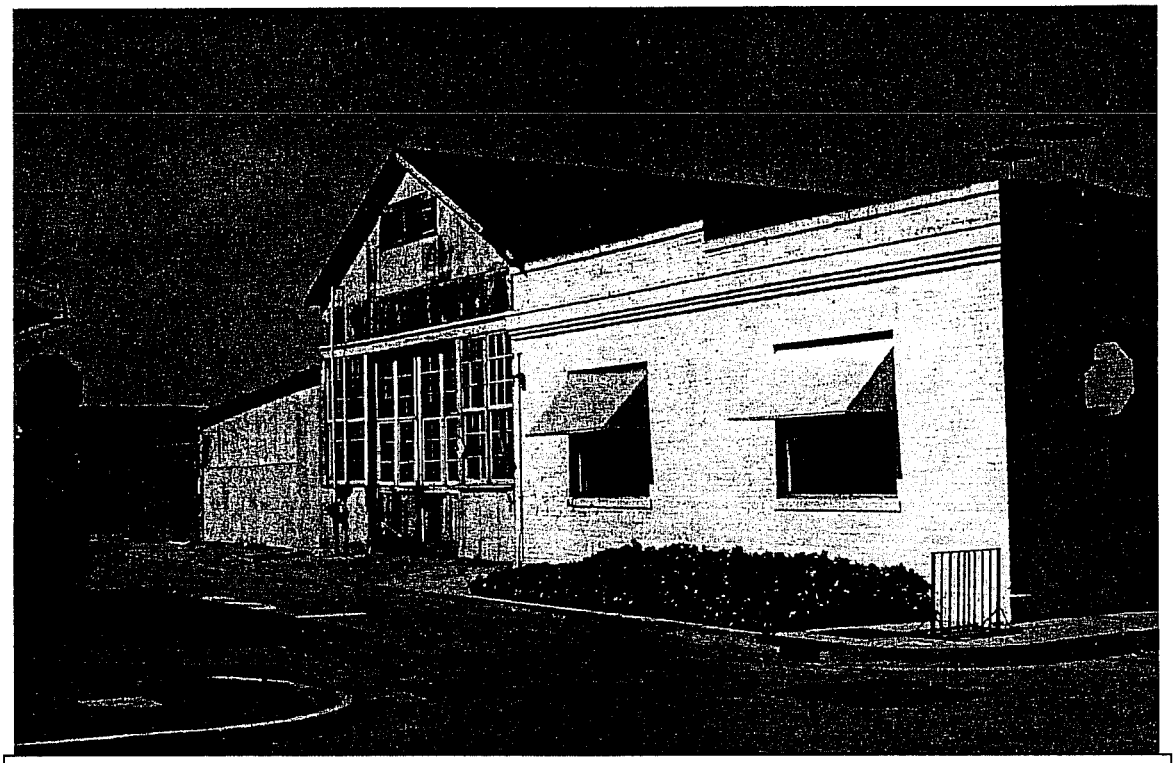


Figure 147
Building 1275
South elevation
(looking northwest)

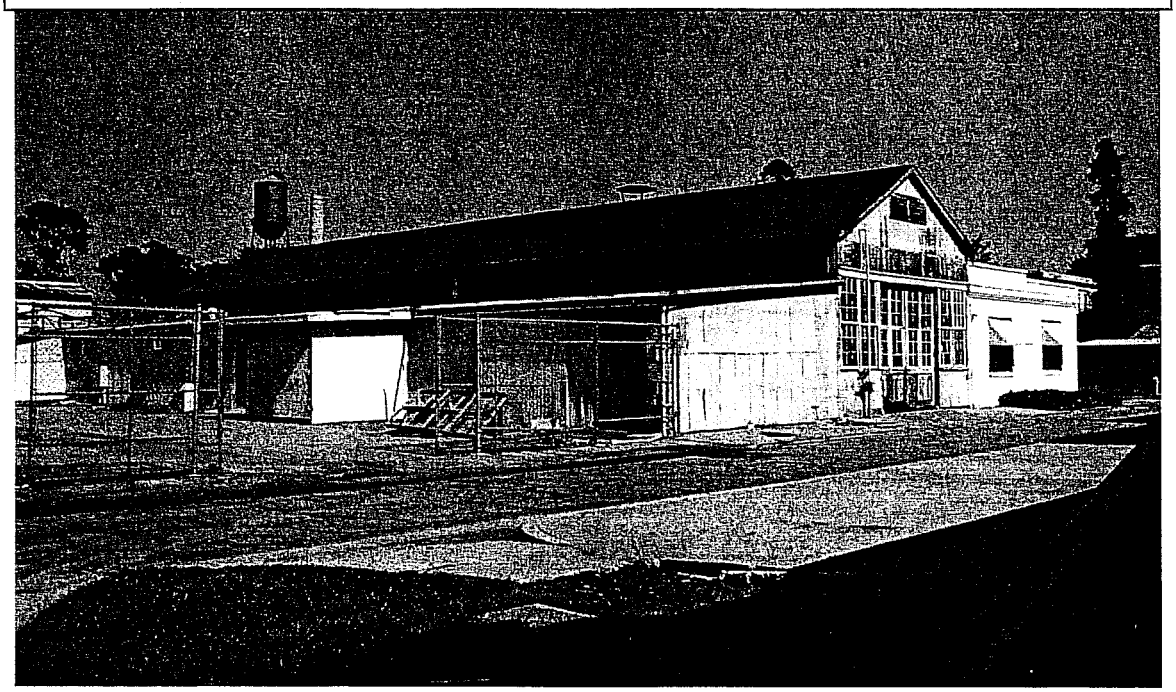


Figure 148
Building 1277
View of west and south elevations
(looking northeast)

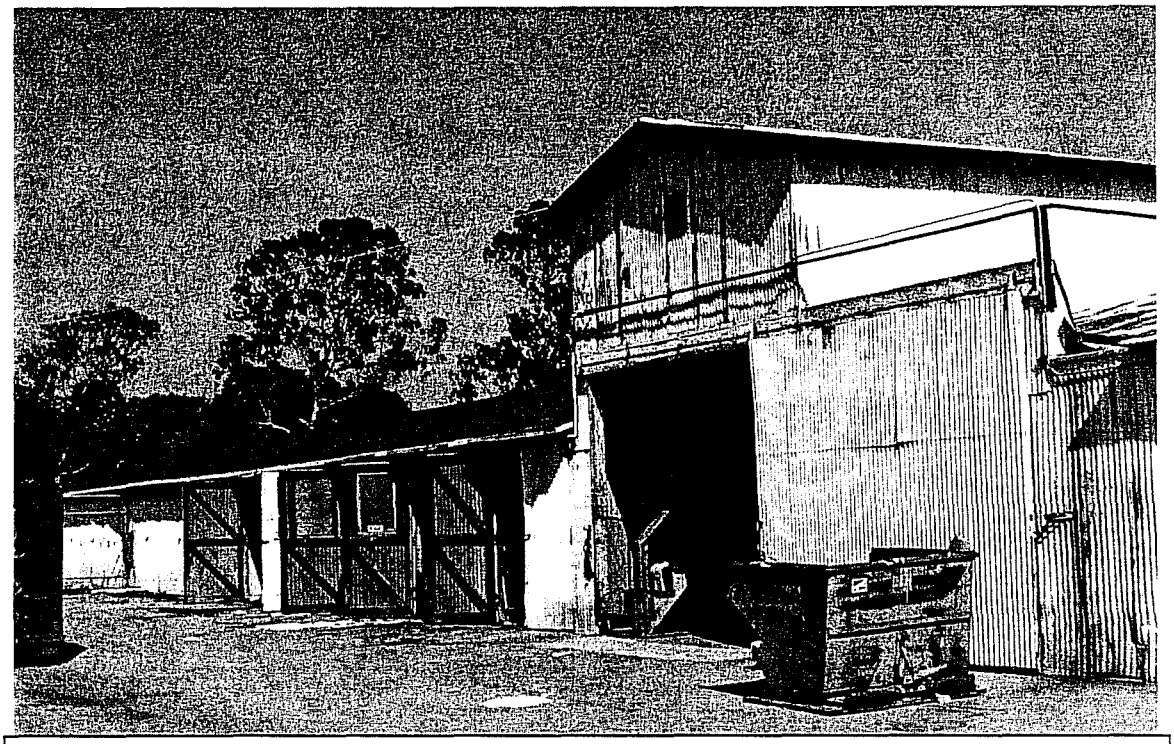


Figure 149
Building 1278
West elevation
(looking south)

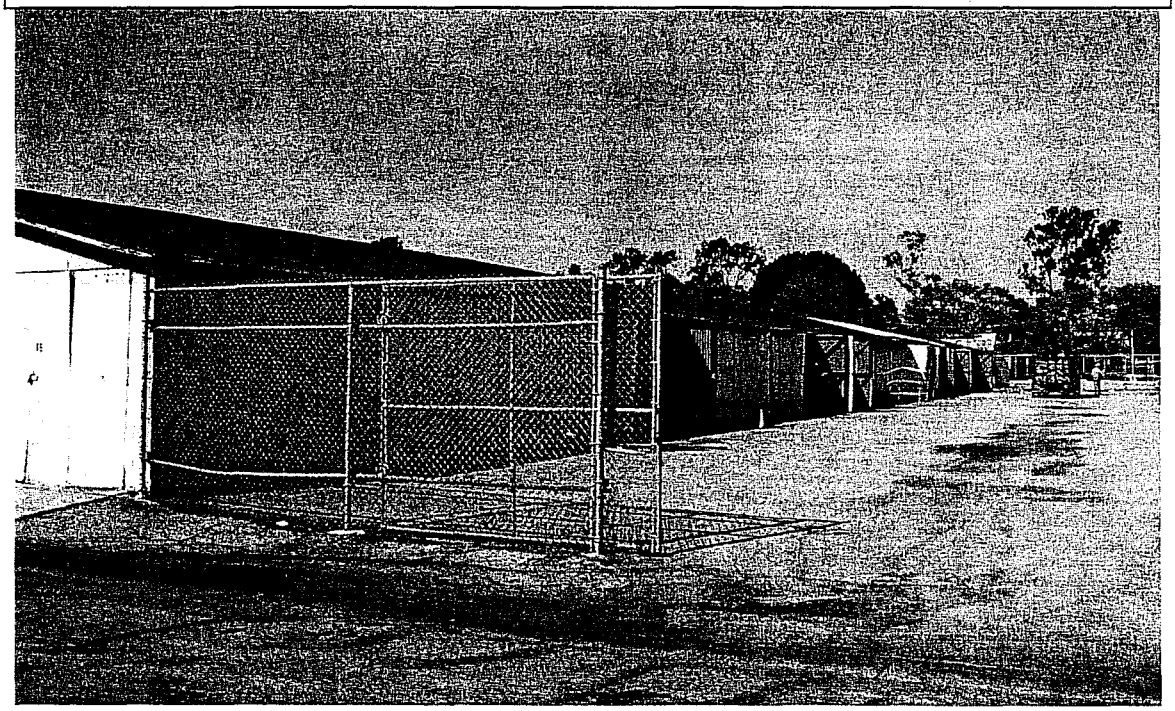


Figure 150
Building 1280
East elevation of garage
(looking north)

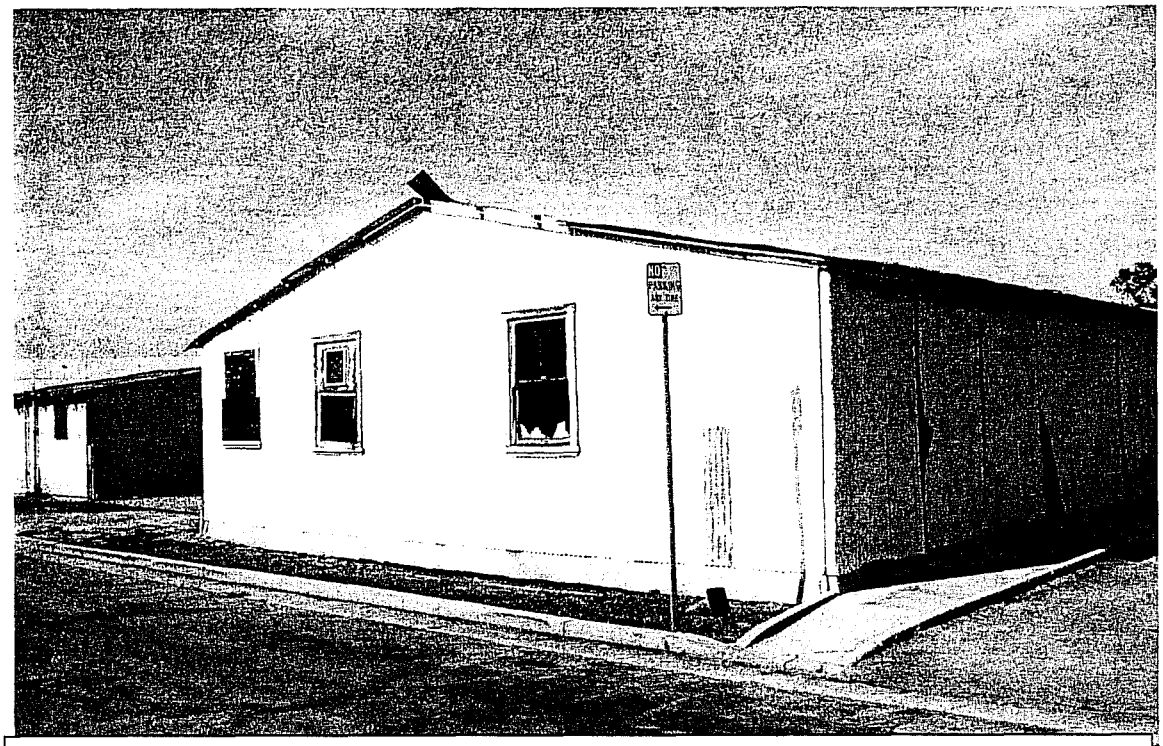


Figure 151
Building 1268
South elevation

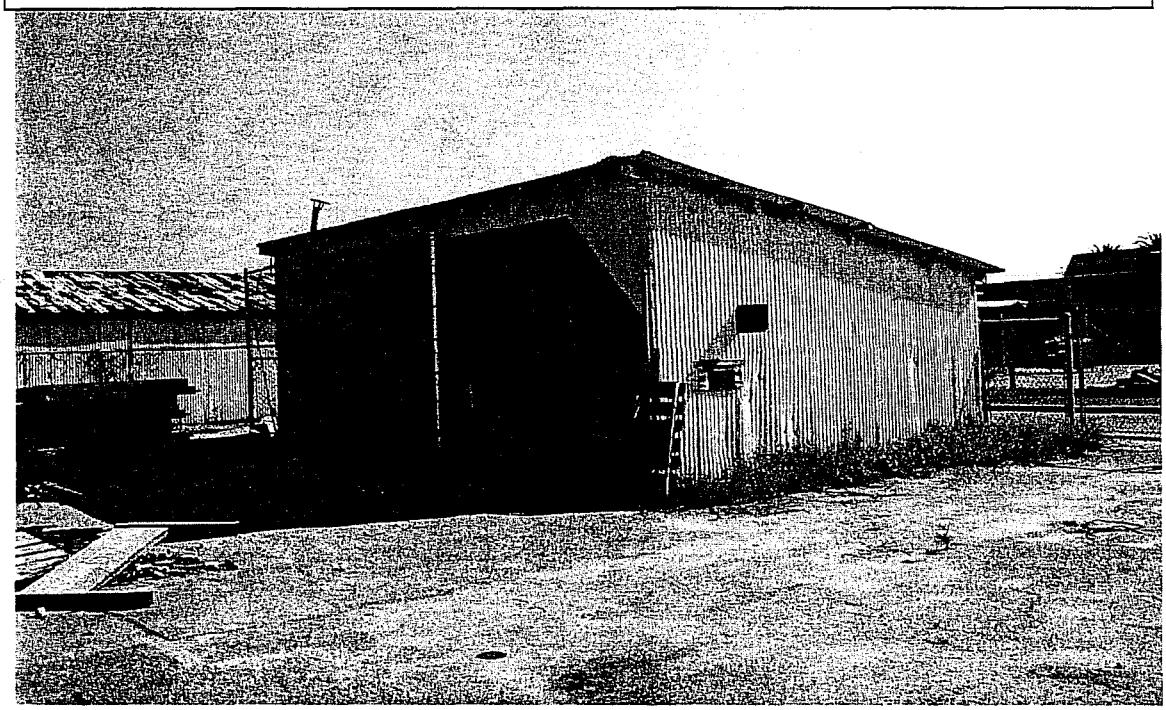


Figure 152
Building 1270
View of north and west elevations
(looking southeast)

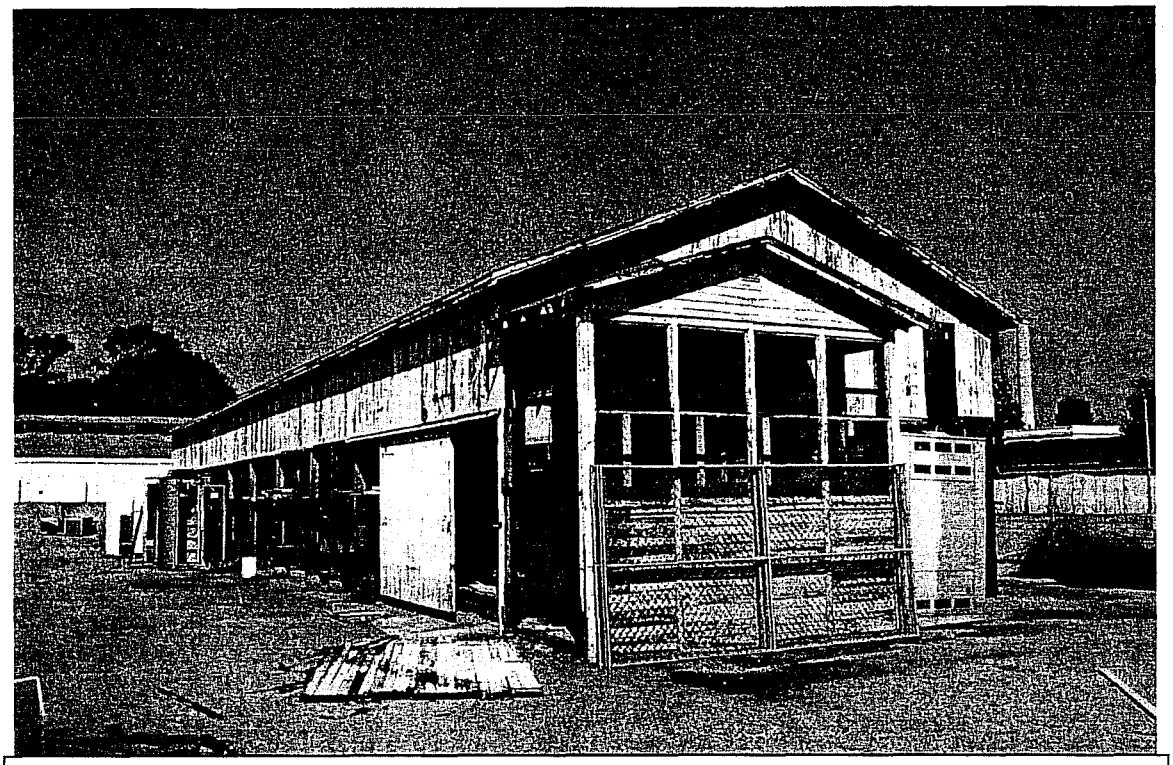


Figure 153
Building 954
View of south and west elevations
(looking northeast)

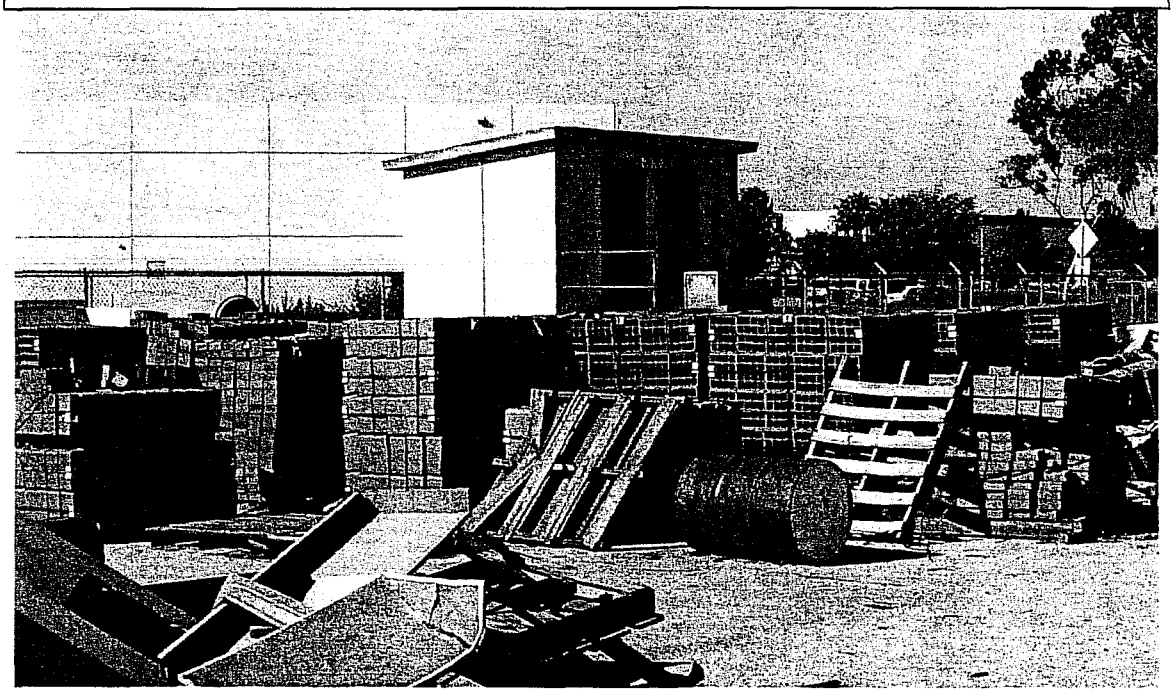


Figure 154
Building 3368
View of north and east elevations'(looking south)

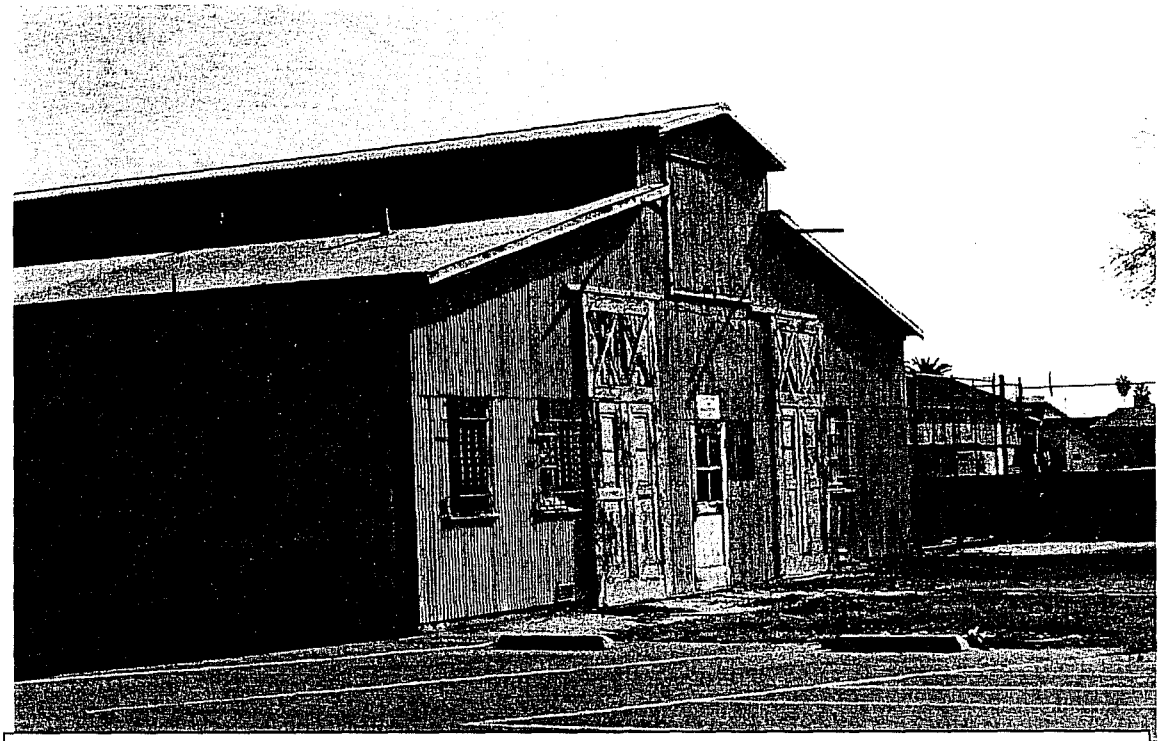


Figure 155
Building 1207
West elevation
(looking south)

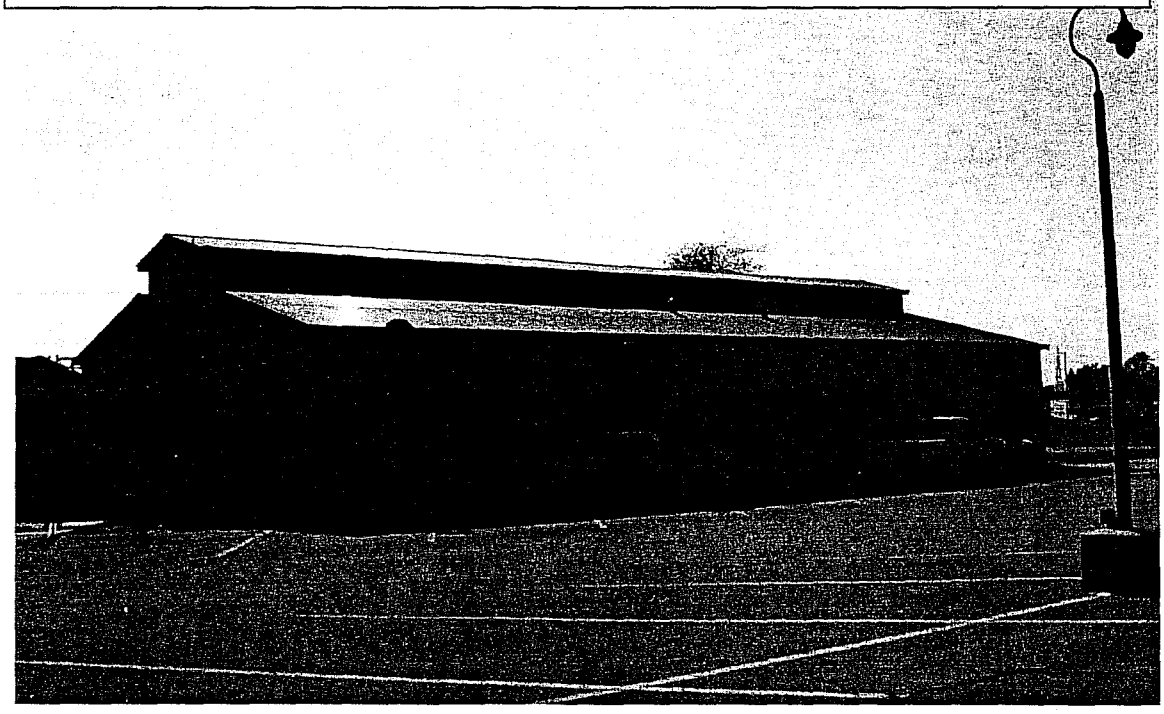


Figure 156
Building 1207
View of north and east elevations
(looking southwest)

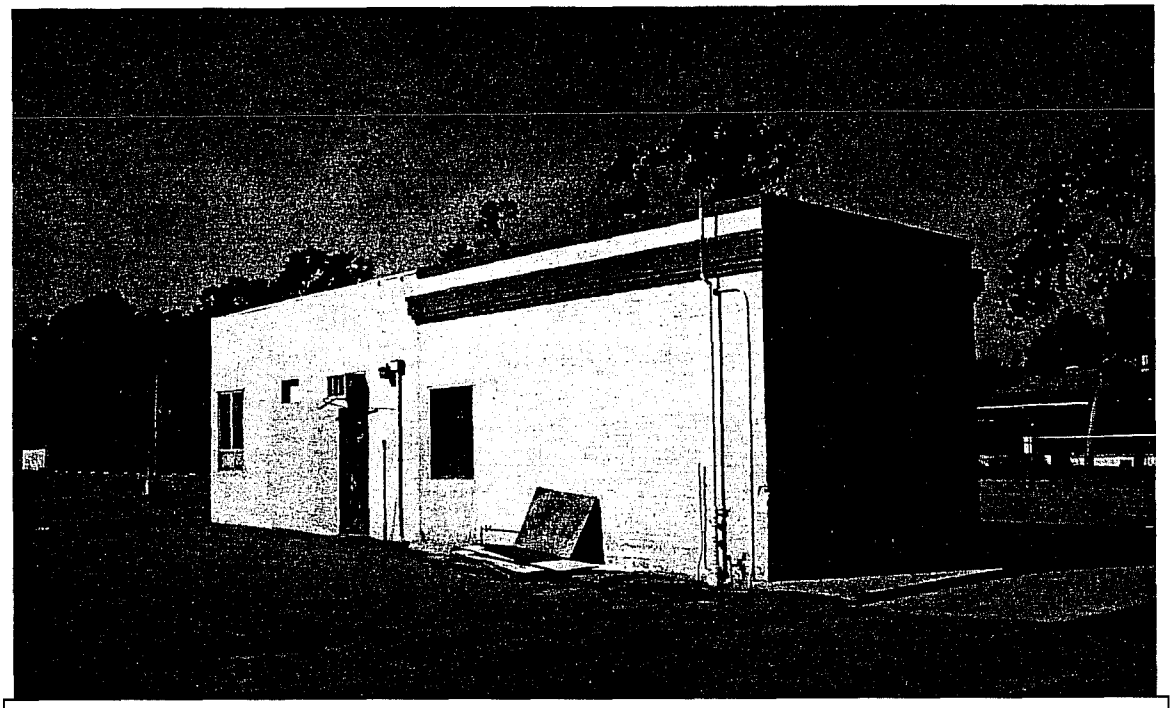


Figure 159
Building 1276
View of south and east elevations
(looking north)

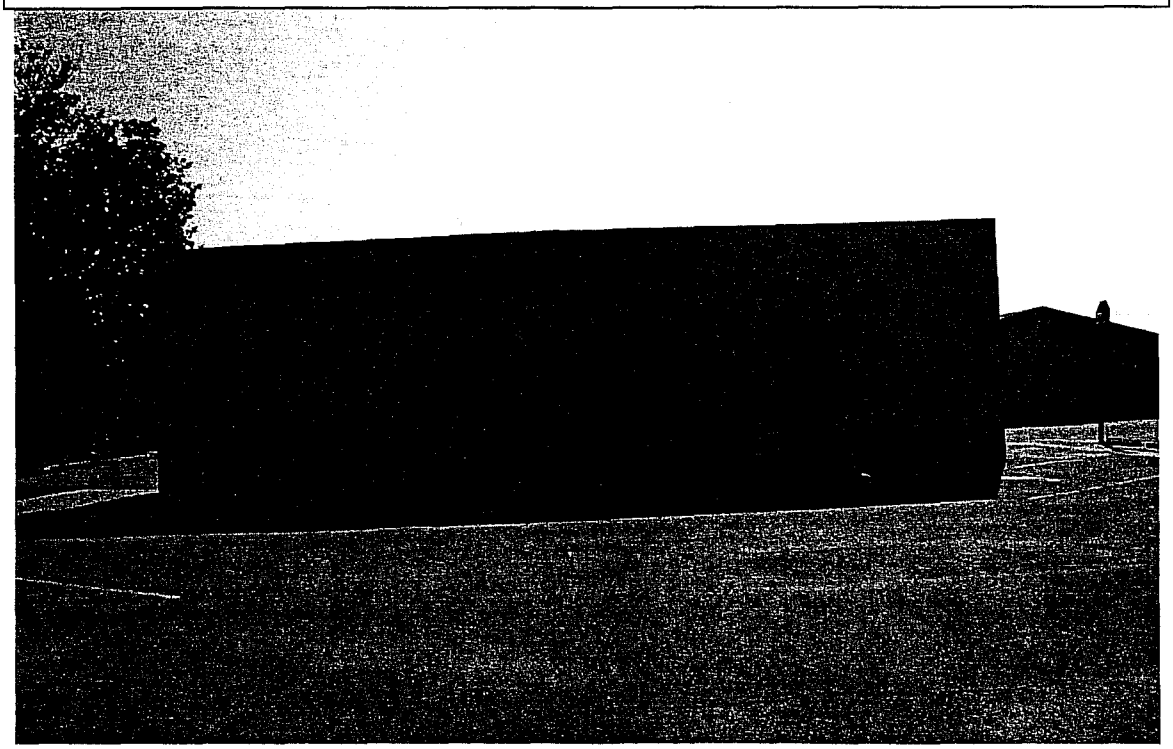


Figure 160
Building 1276
North elevation
(looking south)

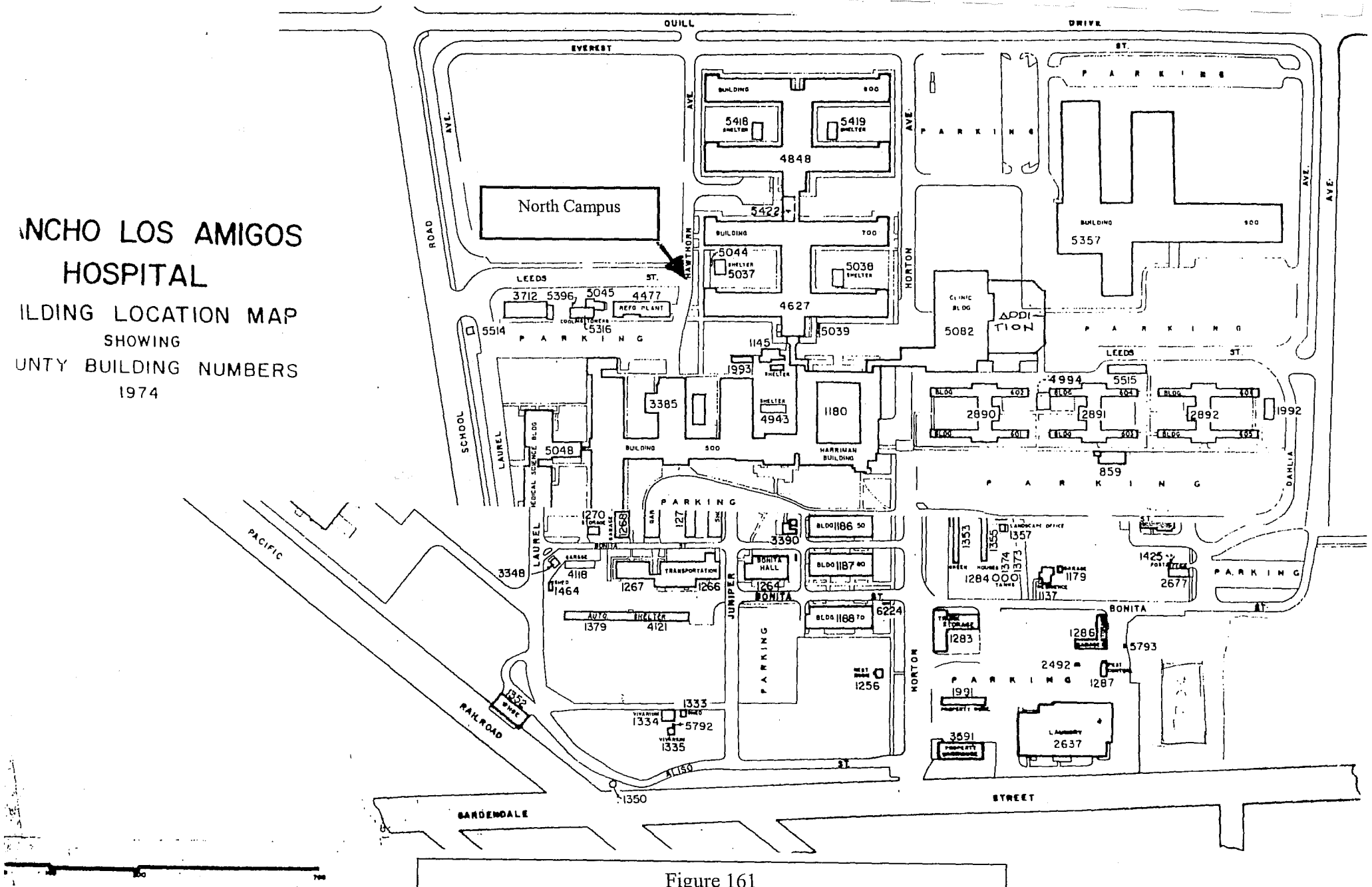


Figure 161

Site Plan of Rancho Los Amigos with National Register of Historic Places and California Register of Historical Resources eligible building shaded in pink.

PART 2
Intensive Historic Structures/Sites Survey

(DPR Forms)

for

The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

Prepared for

The County Administrator's Office
Los Angeles County
783 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, California 90012

by

Post/Hazeltine Associates
2607 Orella Street
Santa Barbara, CA 93101
(805) 682-5751
pampost@earthlink.net

March 19, 2004

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ Reviewer _____ Date _____

Page 1 of 3 **Resource Name or #:** (Assigned by recorder) *LACO #954*

P1. Other Identifier: *Lumber Shed*

P2. Location: ☐ Not for Publication ☒ Unrestricted a. County *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad Date T ; R ; 1/4 of 1/4 of Sec ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

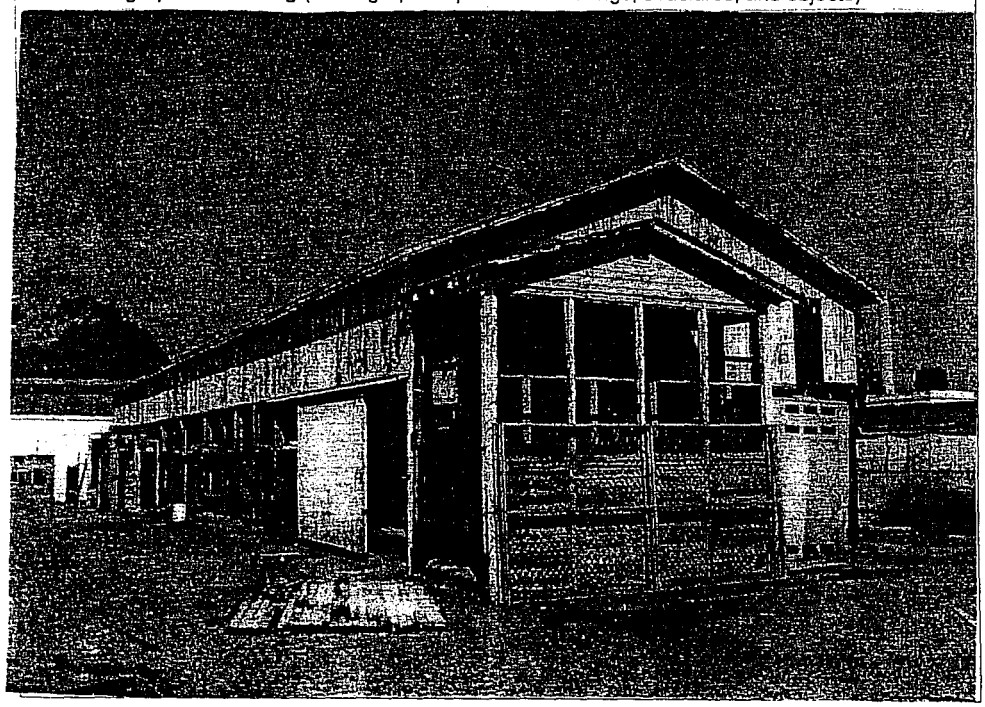
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Lumber Shed (Building #954) is a vernacular style building located north of Building #1270. Its wood frame is capped by a fro gable roof. The side walls are clad in vertical board sidings. A porch capped with a front gable roof, projects from the south elevation. The east and west elevations are lined with a series of sliding wood doors that access individual lumber bins.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1950-1959 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles California 90012

P8. Recorded by: (Name, affiliation, and address
Post/Hazeltine Associates, 2607 Orella Street. Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #954*

B1. Historic Name:

B2. Common Name: *Lumber Shed*

B3. Original Use: *Lumber Shed* B4. Present Use: *Vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #954 was constructed in 1942. Like several other structures built during the war or immediately afterward it appears to have been built of materials salvaged from demolished buildings (Continued pg. 3).

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Within the last 20 years deferred maintenance and vandalism have damaged the Lumber Shed. Most of the sliding wood doors on the east and west elevations have been removed. It is in poor condition, but has fair integrity of design. The building, however, does not retain sufficient physical integrity to represent its architectural type and period of historic significance.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

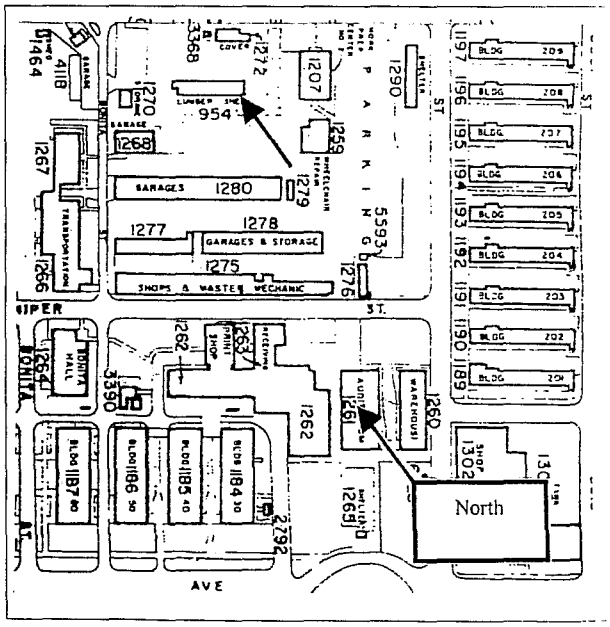
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

Within the last 20 years it has been damaged by vandalism. Most of the sliding wood doors on the east and west elevations have been removed.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 3 **Resource Name or #:** (Assigned by recorder) *LACO #1100*

P1. Other Identifier: *Administration Building*

P2. Location: ☐ **Not for Publication** ☐ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

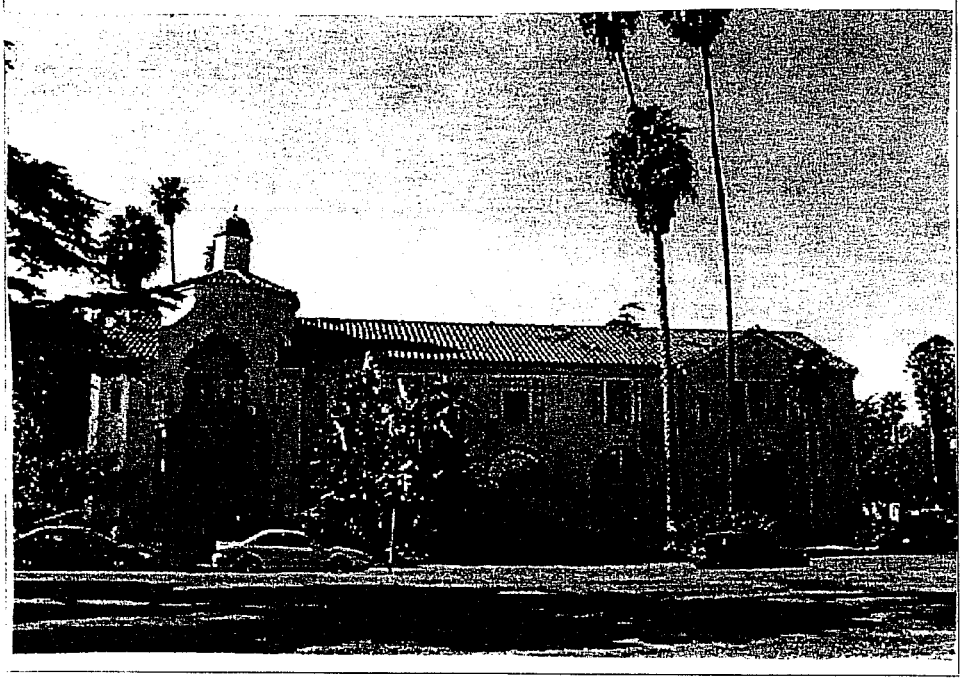
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This large two-story reinforced concrete office building was constructed in 1926. Several features of the building, including its intersecting gable roof covered in terra cotta tiles, stucco-clad walls, arched windows and Churrigueresque style door surround, are stylistic attributes of the Spanish Colonial Revival style. The east elevation functions as the building's entrance façade. The linearity of the elevation is relieved by slightly projecting elements at the north and south ends of the façade. The recessed entrance is through a Churrigueresque style cast stone portal, located at the south end of the elevation. The portal embellishes an eight-sided tower that is capped by a domed cupola. The linear element of the façade is comprised of three large arched windows that are capped by tripartite windows on the second floor. At the north end of the elevation the projecting part of the elevation is capped by a front gable roof. The remaining fenestration of the façade is comprised of a number of small multi-light wood frame windows. The south elevation, with the exception of a slight projection at its east end, is essentially linear in configuration. Its fenestration is comprised of series of rectangular multi-light windows on both the first and second floors. The west elevation is u-shaped in configuration *(Continued pg. 2)*

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1926 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehaabilitation

P3. Description

Its fenestration is comprised of series of rectangular multi-light windows on both the first and second floors. The north elevation is linear in configuration, with the exception of modest one-story projection at its west end. Its fenestration is comprised of an asymmetrical arrangement of multi-light windows on its first and second floors.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

Page 3 **of** 3 **NRHP Status Code** 3

Resource Name or #: (Assigned by recorder) *LACO #1100*

B1. Historic Name: *Administration Building*
B2. Common Name: *Office of Public Safety*
B3. Original Use: *Adminstrative office* B4. Present Use: *Office of Public Safety*

B5. Architectural Style: *Spanish Colonial Revival*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built in 1926 to house the administrative staff of the County Farm. The building continued to function in this capacity until the late 1970s. Subsequently renovated to operate in its present capacity as the Office of Public Safety.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and sitll later as the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The former administrative building has retained its original ornamental cast stone embellishments, wrought iron work, roofing type, and most of its original fenestration. Sometime after 1931, the exterior configuration was altered when the north elevation's arcaded portico was removed. With the exception of this one modification, the exterior configuration has remained substantially intact. The building is in excellent physical condition, having been rehabilitated in the late 1980s. Therefore, the building has retained sufficient integrity to represent its architectural style and period of historic significance and qualifies under Criterion c.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

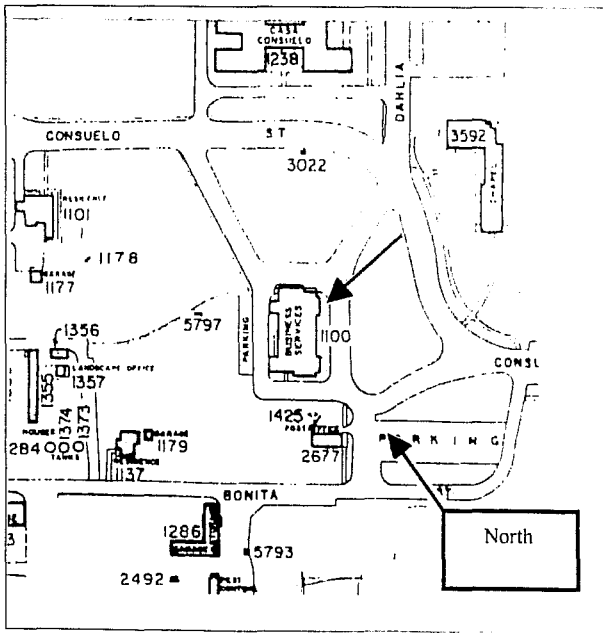
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County. California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California— The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3
Other Listings
Review Code ____ **Reviewer** _____ **Date** _____

Page 1 **of** 4 **Resource Name or #:** (Assigned by recorder) *LACO #1101*

P1. Other Identifier: *Superintendent's Office*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

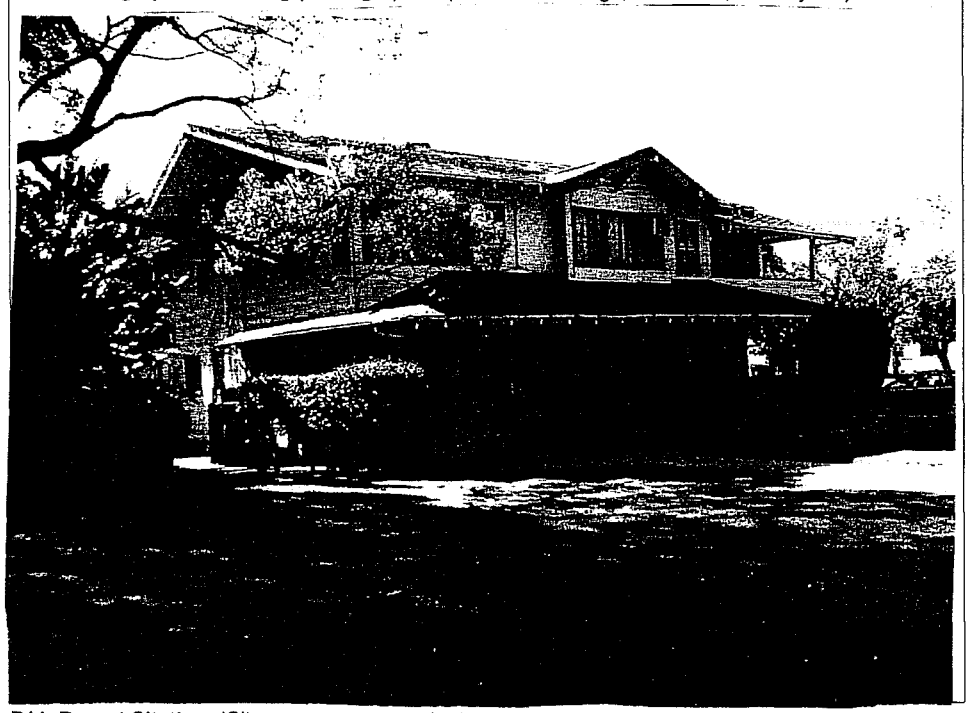
The Superintendent's house was built in 1915 to serve as the residence of the Superintendent of the County Farm. The two-story house is designed in the Craftsman Style, which enjoyed widespread popularity in the United States between circa 1900 and the mid-1920s. The wood frame house exhibits several character-defining elements of the style, including its informal plan, use of natu materials, such as wood and brick, horizontal wood siding, exposed rafter tails, overhanging eaves with triangular brackets, sleepin porches and lack of formal architectural embellishments.

The north elevation functions as the house's façade. Its most notable element is the one-story porch that runs the length of the elevation. Four brick piers support the porch's hipped roof. A set of brick stairs, set at the east end of the elevation, provides acce to the porch from the front lawn. The steps lead to a Craftsman style front door that is flanked by oversized wood sash windows, o of which is set into a slightly projecting bay. The second floor is capped by a side gable roof with a small cross gable set over the projecting bay. A second floor sleeping porch, supported by brick piers, projects from the west end of the façade *(Continued pg. 2,*

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both
1915 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

P3. Description

The fenestration of the second floor is comprised of a number of large and small casement and sash windows. The west elevation is asymmetrical in its massing. At the north end of the elevation a two-story projection, capped by a cross gable roof, has a sleeping porch on its second floor and a porte-cochere on the first floor. A set of brick stairs leads from the porte-cochere to the house's front porch. The port-cochere is flanked on its south side by a slightly projecting bay capped by shed roof. Brick piers support the small projecting wing at the south end of the elevation. The fenestration of this elevation is an asymmetrical arrangement of wood sash and casement windows. The south elevation functions as the building's rear elevation, which is u-shaped in configuration. The eaves of the two-story wings are capped by cross gable roofs that are supported by triangular brackets. The wing on the east side of the elevation has an enclosed porch, capped by a hipped roof. Once again the fenestration is an asymmetrical arrangement of wood sash and sliding windows. The east elevation is linear in configuration. It is capped by a complex gable roof. At the south end of the elevation a concrete stoop leads to a service door that is capped a shed-style metal awning . The door is flanked on its north side by a one-story projecting bay capped by an extension of the north elevation's porch roof. Its fenestration is comprised of wood sash windows.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1101*

B1. Historic Name: *Harriman House*
B2. Common Name: *Superintendent's Office*
B3. Original Use: *Residence* B4. Present Use: *Record storage facility*
B5. Architectural Style: *Craftsman Style*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1915, for the Superintendent of the County Farm. Occupied by William Harriman from 1915 to 1952 (Continued pg. 4)

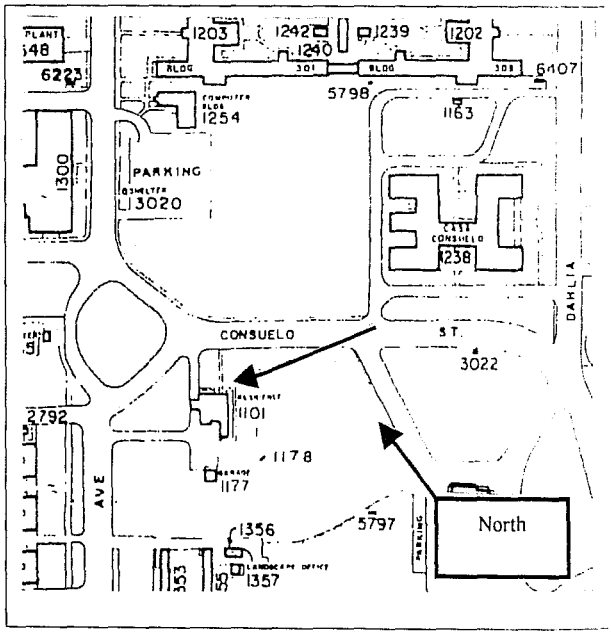
B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Part of South Campus of Rancho Los Amigos*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Superintendent's house (Harriman House) is an excellent example of Craftsman architecture built in the early decades of the twentieth century. The building exhibits a number of the attributes that identifies it with the Craftsman aesthetic, including its clapboard siding, moderately pitched roof, deep eaves and exposed rafter tails. Like many structures constructed in this style the design was predicated, in large measure, on the artistic tenets of the mid-nineteenth century English Arts and Crafts Movement. Promoted by such men as John Ruskin and William Morris and later, Gustave Stickley, in America, adherents of the Craftsman movement rejected what they perceived as the overly elaborated, machine-made decorative motifs of late nineteenth century High Victorian design and ornamentation. Instead, they favored simpler compositions based on an open plan, horizontal massing, integration with the landscape, smooth, unadorned wood surfaces and understated decorative schemes. The Superintendent's house, which possesses all of these features, is an excellent example of the Craftsman style, a style popular from circa 1900 to the mid-1920s. Therefore, the Superintendent's House possess sufficient architectural significance to qualify under Criterion c, at the local level, and for nomination to the National Register of Historic Places.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California



B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)

B-6

Over past 88 years the house has undergone several alterations, including the enclosure of the second-story sleeping porches and a portion of the first floor porch.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1121*

P1. Other Identifier: *Staff Cottage*

P2. Location: ☒ **Not for Publication** ☐ **Unrestricted** **a. County** *Los Angeles*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad *Downey* **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Located on the south campus of Rancho Los Amigos Rehabilitation Hospital. Near the intersection of Hawthorn and Flores Street. Parcel No. *N.A.*

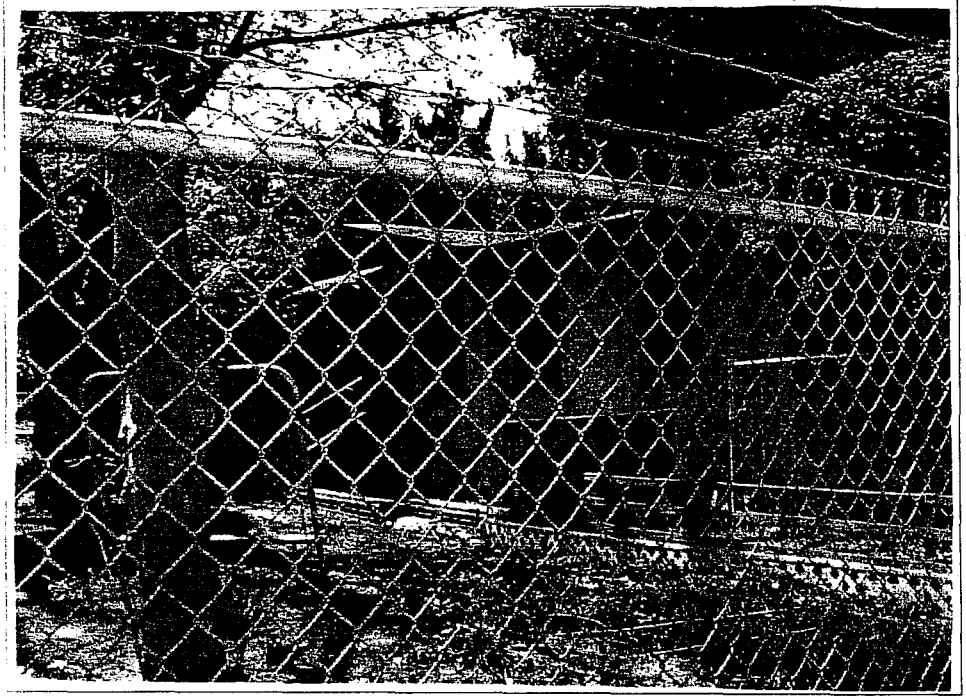
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located near the intersection of Hawthorn and Flores Streets this wood-frame, single-story vernacular building is one of two survi examples of staff housing at Rancho Los Amigos. The rectangular building is supported by a concrete slab foundation. Its cross-gabled roof is covered in a combination of rolled asphalt and composition shingles. Triangular wood brackets support the rc projecting eaves. The wood frame cottage is clad in horizontal lapped wood siding. Its wood-frame windows are one-over-one sir hung sash type. The building once formed part of an enclave of residential buildings that housed Rancho Los Amigos staff memb Over the last 40 years, with the exception of two cottages, all of the buildings in this residential complex has been demolished.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #

P6. Date Constructed/Age and Sources
☐ Prehistoric ☒ Historic ☐ Both

Factual,

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angles, California 90012

P8. Recorded by: (Name, affiliation, and addres
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *5/25/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates 2003: Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitatic

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1121*

B1. Historic Name: *Staff Cottage*
B2. Common Name: *LACO #1121*
B3. Original Use: *Staff housing* B4. Present Use: *vacant*

B5. Architectural Style: *vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

This one-story residential building was constructed in circa 1923. Originally it was a four-plex that housed members of the hospital staff. In nater years it was used for offices and storage.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of residential buildings that formed an integral elelment of the Los Angeles County Poor Farm (later the County Farm and still later the Rancho Los Amigos Hospital).*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1923-1950* **Property Type:** *Public* **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The cottage is a vernacular style building whose original context has been significantly diminished by the demolition of other staff residences. The building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

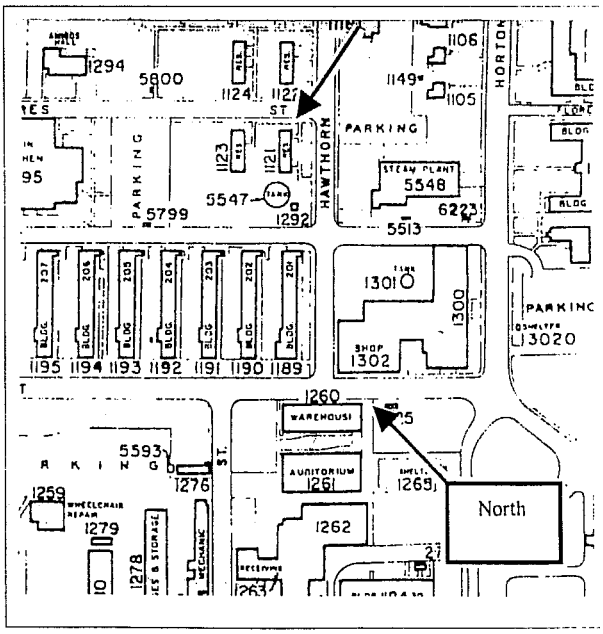
Post/Hazeltine Associates 2003: Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *5/25/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z
Other Listings
Review Code _____ Reviewer _____ Date _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1123*

P1. Other Identifier: *Staff Cottage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

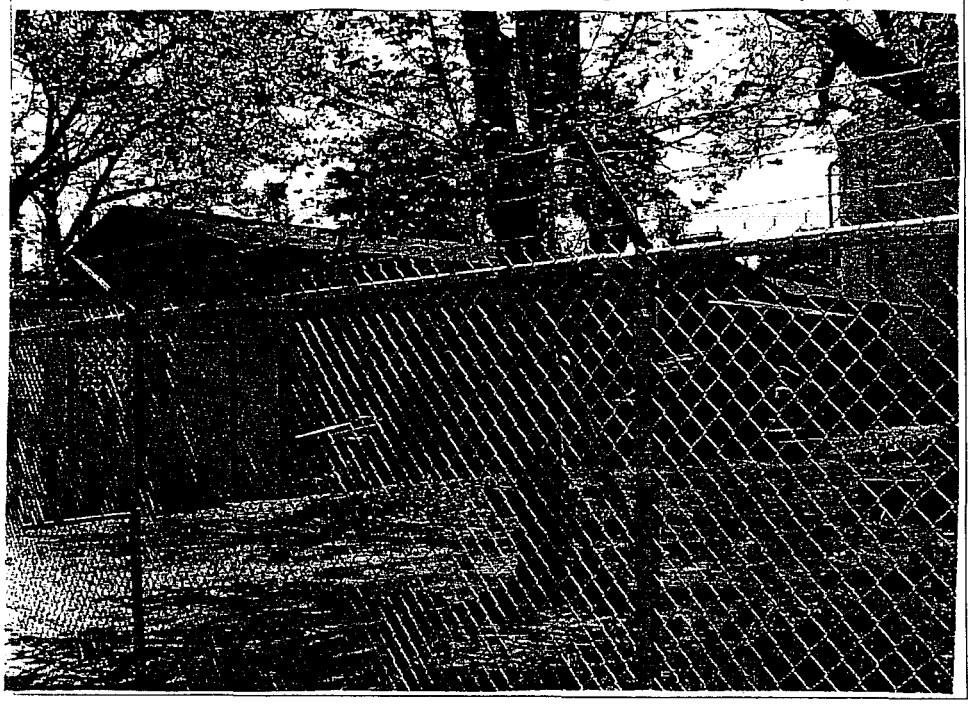
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located near the intersection of Hawthorn and Flores Streets, just west of Building #1121, this wood-frame, single-story vernacular building is one of two surviving examples of staff housing at Rancho Los Amigos (the other is Building #1121). The rectangular building is supported by a concrete slab foundation. Its cross-gabled roof is covered in a combination of rolled asphalt and composition shingles. Triangular wood brackets support the roof's projecting eaves. The wood frame cottage is clad in horizontal lapped wood siding. Its wood-frame windows are one-over-one single hung sash type. The east elevation of the cottage functions as the building's rear elevation. It has two separate entries located at the top of a five-step concrete stoop placed in the center of the elevation. The west elevation is the cottage's primary elevation. Its entrance is embellished with a decorative gable-end. The extended eave shelters a projecting stoop capped by a shed roof. A wood single-leaf door is the primary entry. The stoop has metal pipe railings. The north elevation faces toward Flores Street. A centrally placed doorway placed at the top of a concrete stoop provides access to the cottage's interior. The south elevation is linear in configuration. Its fenestration is comprised of an asymmetrical arrangement of wood sash windows.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1921 (factual)

P7. Owner and Address

County of Los Angeles, Kenneth Hahn Hall of Administration
500 Temple Street
Los Angeles, CA 90012

P8. Recorded by: (Name, affiliation, and address)

Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/16/2003*

P10. Survey Type: (Describe)

Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1123*

B1. Historic Name: *Staff Cottage*
B2. Common Name:
B3. Original Use: *Staff housing* B4. Present Use: *none*
B5. Architectural Style: *Vernacular*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1921

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a larger complex of residential buildings that formed an integral element of the Los Angeles County Poor Farm (later the County Farm and still later the Rancho Los Amigos Hospital)*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** *Public* **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The cottage is a vernacular style building whose original context has been significantly diminished by the demolition of other staff residences. The building does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

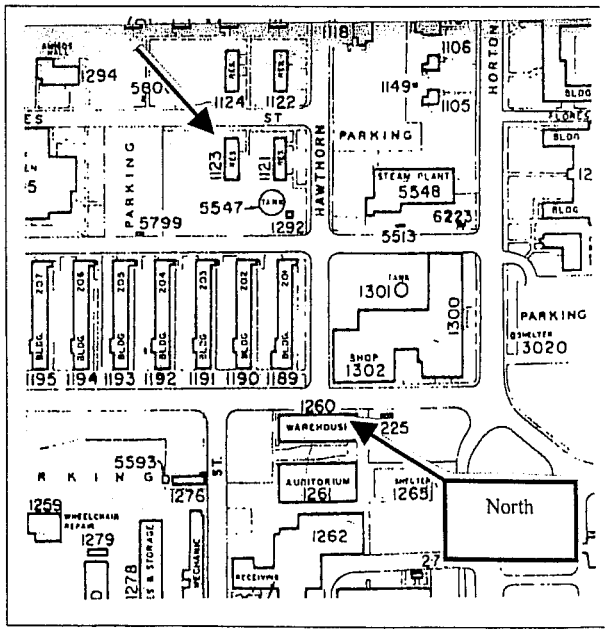
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/16/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #1137*

P1. Other Identifier: *Dairyman's House*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

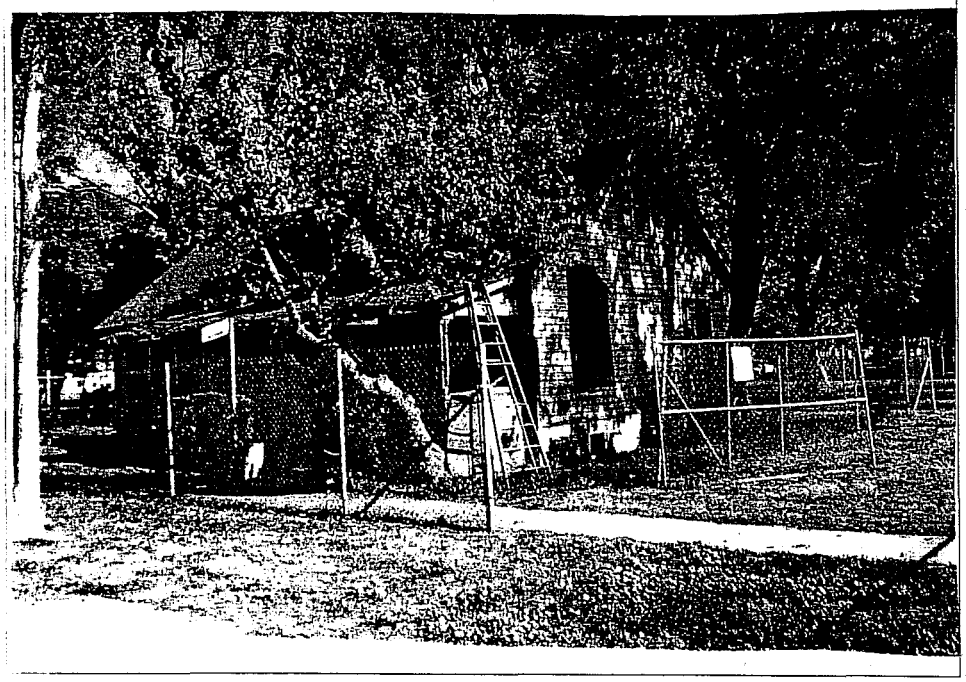
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Built in 1907, this wood frame vernacular style cottage is located just east of the metal tanks, near Bonita Street. The wood frame house is capped by a side gable roof, and is clad in horizontal wood siding. Its fenestration is primarily comprised of wood sash windows. The west elevation is the cottage's façade; its most distinguishing feature is the projecting porch that runs along most c elevation. Square wood posts set on a solid wood parapet support the porch's shed roof. The north end of the porch has been enclosed with wood frame windows. A solid wood Craftsman Style front door is located at the north end of the porch. It is flanke its south side by large wood frame window. The south elevation of the cottage is linear in configuration. Its fenestration is compri of a symmetrical arrangement of two wood sash windows. A louvered vent is located just below the peak of the side gable roof. projecting element at the north end of the elevation is the cottage's kitchen. The fenestration of this side of the building is compri of an asymmetrical arrangement of the wood sash windows. The north side of the building is linear in configuration. Its fenestrati consists of a symmetrical arrangement of wood sash windows. A rectangular wood louver is located just under the eave line.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #

P6. Date Constructed/Age and Sources
☐ Prehistoric ☒ Historic ☐ Both

1907 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angele California 90012

P8. Recorded by: (Name, affiliation, and addres
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitaior

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1137*

B1. Historic Name: *Dairyman's House*
B2. Common Name: *Landscape Department storage building*
B3. Original Use: *residence* B4. Present Use: *vacant*
B5. Architectural Style: *Vernacular*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1907 as a residence it has undergone some alterations since then, including the enclosure of its front porch sometime after 1930. Until the early 1980s it was used as storage by the Landscape Department.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the County Farm and later Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The former Dairyman's House represents a fairly common example of an early twentieth century, vernacular style building. As a individual structure the house does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, the house is not a part of distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

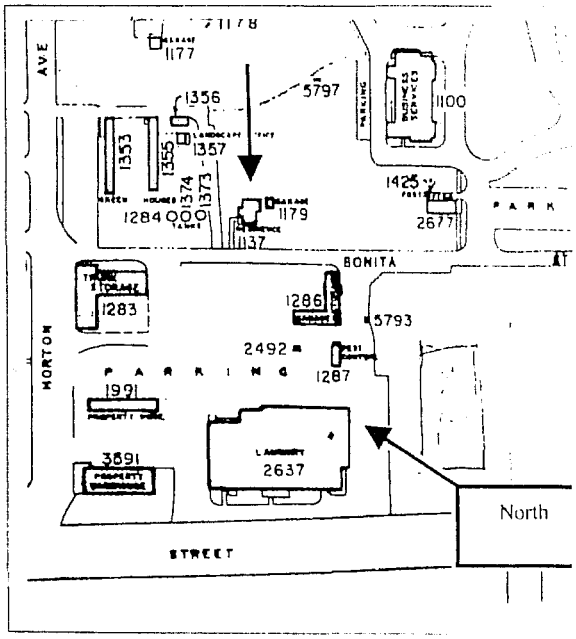
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1137*

B1. Historic Name: *Dairyman's House*
B2. Common Name: *Landscape Department storage building*
B3. Original Use: *residence* B4. Present Use: *vacant*
B5. Architectural Style: *Vernacular*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1907 as a residence it has undergone some alterations since then, including the enclosure of its front porch sometime after 1930. Until the early 1980s it was used as storage by the Landscape Department.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the County Farm and later Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The former Dairyman's House represents a fairly common example of an early twentieth century, vernacular style building. As an individual structure the house does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, the house is not a part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

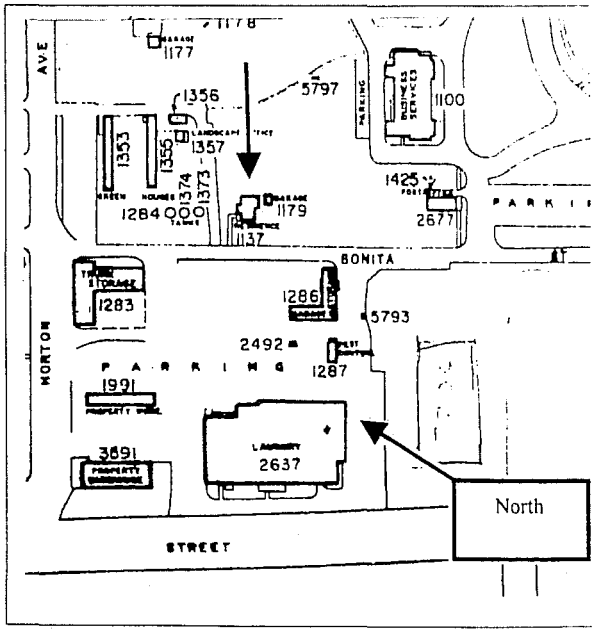
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1177*

P1. Other Identifier: *Superintendent's Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The wood frame garage is located across an asphalt driveway and parking area from the Superintendent's house. The Craftsman style garage was built in 1917. Many architectural details of the garage, including its wood siding, projecting side gable roof, and window types, mimic those of the Superintendent's house. The north elevation faces toward the house. Two large garage door bays fitted with sliding wood doors take up most of its length. A shed-roofed carport is attached to the west end of the elevation. A shed-roofed carport is attached to the north elevation. Both the south and east elevations are linear in configuration and unbroken by fenestration or doorways.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both
1917 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1177*

B1. Historic Name:

B2. Common Name: *Superintendent's Garage*

B3. Original Use: *garage* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built in 1917, the garage served as the Superintendent's garage until the early 1960s. Within the last 30 years a carport was added off the garage's west elevation.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral element of the Los Angeles County Poor Farm (later the County Farm and still later the RAncho Los Amigos Hospital).*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The garage has retained its original exterior configuration and details, roofing type, and most of its original fenestration. The building is in fair physical condition. Post-construction modifications to the garage's exterior include the addition of a carport off of the west elevation. This alteration has somewhat diminished the integrity of the building. In other respects the garage's exterior has not been significantly altered since its construction. The garage's exterior has not suffered from significant deterioration or vandalism. The building has retained sufficient integrity to represent its architectural style and period of historic significance and therefore qualifies under Criterion c as a contributing element to the Superintendent's house (the Harriman House).

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

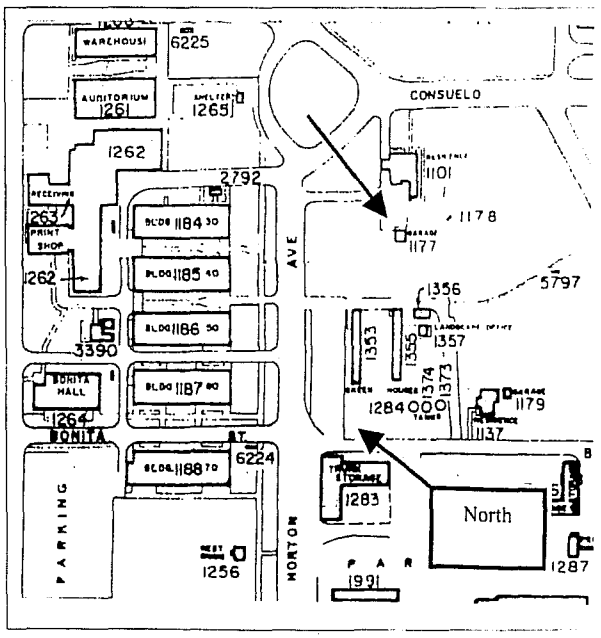
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehaabilitation Center, Los Angeles, County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1178*

B1. Historic Name:

B2. Common Name: *Garden Shed*

B3. Original Use: *garden/storage shed* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built sometime between circa 1915 and 1922. The shed has had no alterations since its initial construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex or buildings that formed an integral component of the Los Angeles County Poor Farm (later the County Farm and still later the Rancho Los Amigos Hospital).*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The small garden shed associated with the nearby Superintendent's house has retained its original configuration. The building is in fair physical condition. No significant post-construction modifications have been made to the shed's exterior. The shed's exterior has not suffered from significant deterioration or vandalism. The building has retained sufficient integrity to represent its architectural style and period of historic significance and therefore it is eligible under Criterion c as a contributing element to the Superintendent's house (the Harriman House).

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

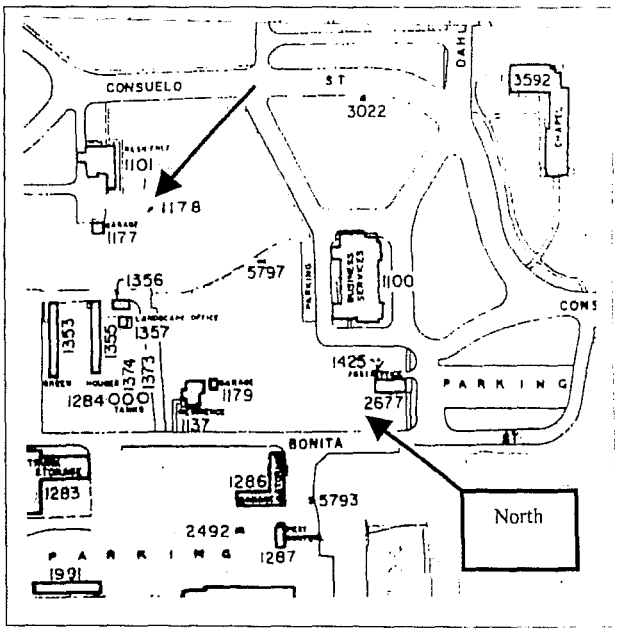
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 4 **Resource Name or #:** (Assigned by recorder) *LACO #1184, #1185, #1186, #1187 & #118*

P1. Other Identifier: *General Ward Buildings*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The five general ward buildings share a similar design scheme. Each building is designed as a two-story rectangular masonry building, whose facade face toward Erickson Avenue. Each building's flat roof is hidden from view by a solid brick parapet. At the base of the parapet a brick cornices projects from the top of the wall plate. All four elevations are embellished with blind arcades inset with rectangular wood sash windows. All five buildings are sheathed in stucco. Originally, the east and west elevations had screened porches, which were later glazed. The east elevation of each ward is divided into two arcades. At the east end of the elevation an exterior staircase leads to the second floor. A sealed door is located just north of the façade's central pier. The second floor of each building is recessed behind a second floor loggia; two doors set into the second floor provide access to second floor. The north elevation of each ward is linear in configuration with wall surfaces divided into an arcade by eight flattened arches. Sets of paired wood sash windows, on the first and second floors, fill the blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. Doors reached via a concrete ramp are placed at the base of the second and fourth arcades (Continued pg. 2).

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1914; 1926 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of Rancho Los Amigos Rehabilitation Center, Los Angeles

P3. Description

The west elevation of each ward is the rear of the building. On the first floor the fenestration is comprised of two sets of pair sash windows flanked on their south side by a sealed window. The second floor fenestration is comprised of a series of what appear to be double casement windows (the windows have been covered with wood sheeting making precise identification difficult). Originally the second floor was a screened porch. The rear elevation of Buildings #1184, #1185 and #1186 are joined by one-story hyphens. A one story arched bridge join Buildings #1184 and #1185 to Building #1162. The south elevation of each ward references the design of the north elevation. Its wall surface is divided into an arcade by ten flattened arches. Sets of paired wood sash windows, on the first and second floors, fill blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. A staircase is set into a recessed entry at the west end of the elevation.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1184, #1185, #1186, #1187 & #1*

B1. Historic Name:

B2. Common Name: *General Ward Buildings*

B3. Original Use: *patient wards*

B4. Present Use: *vacant*

B5. Architectural Style: *Stripped Classicism*

B6. Construction History: (Construction date, alterations, and date of alterations)

Buildings #1184, #1185 and #1186 were constructed in 1914 to serve as general wards for the County Farm. In 1926, two more wards,Buildings #1187 and #1188 were added to the row of two-story wards along Erickson Avenue *(Continued pg. 4).*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the County Poor Farm, later the County Farm and still later, Rancho Los Amigos Hospital.*

B9a. Architect: *unknown*

b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

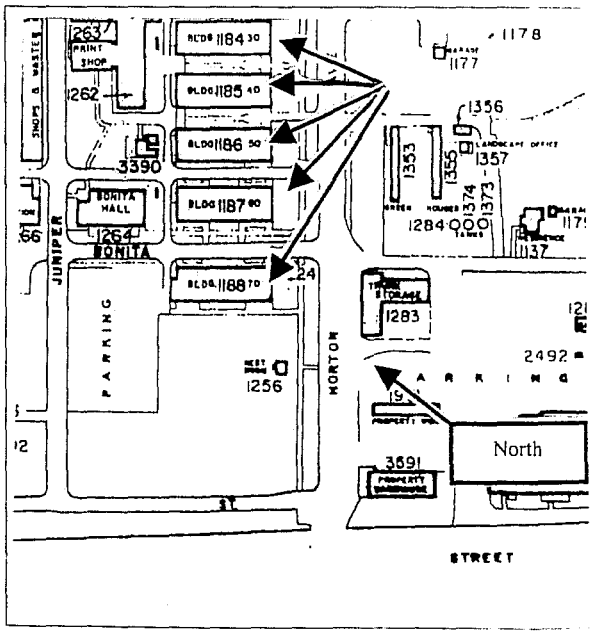
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the General Ward Buildings represent fairly common examples of early twentieth century institutional buildinç that eschewed explicit references to a particular architectural style. As an individual structures none of these buildings have th type of historic associations or architectural significance that would make them eligible for nomination to the National Register · Historic Places on an individual level. In addition, none of the individual buildings are part of a distinguishable entity that wou make them eligible for nomination as contributing elements to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California



B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)

B-6

The buildings have undergone a number of significant alterations, including the enclosure of the open porches on the east and west elevations, and the replacement of a number of the building's original doors and windows.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO 1189-1197*

P1. Other Identifier: *Infirmary Wards*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Nine freestanding one-story wood frame buildings (wards)are linked by a continuous portico on the south side of each building. Eacl ward is capped by a modestly pitched, composition shingle roof. Skylights have been inserted in some of the ward's roofs. Recesse doorways are located on the north and south elevations. Each ward is capped by hipped roofs and is clad in horizontal wood siding. The fenestration of the west elevation is comprised of a linear arrangement of wood sash windows. The east elevation's fenestratior is comprised of a linear arrangement of multi-light wood windows. The interior of each ward is comprised of two large rectangular wards, flanked at their south end by smaller rooms that were used for staff room, a small kitchen and bathrooms. At the east end of the building a rectangular room acted as a vestibule to the main ward.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1922-1926 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10-17-2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO 1189-1197*

B1. Historic Name: *Infirmary Wards*

B2. Common Name:

B3. Original Use: *patient wards* B4. Present Use: *vacant*

B5. Architectural Style: *vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

The nine one-story wards were built between 1922 and 1926. Orignally wards were used to house patients and staff, the last wards were closed in 1964. Later, the buildings were used for offices and storage. They are now vacant.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral element of the Los Angeles County Farm and still later the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** *Public* **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Post-construction alteration to the ward buildings' interiors and exteriors, which include the stuccoing of some of the elevations, the replacement of part of the fenestration, and the insertion of a number of small additions have diminished the integrity of the buildings. The buildings represent a common type of construction that was prevalent in the early part of the twentieth century. While in fair condition, the buildings do not have the type of historic associations or architectural significance that would make tany of them eligible for nomination to the National Register of Historic Places on an individual level. In addition, they are not part of a distinguishable entity that would make them eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

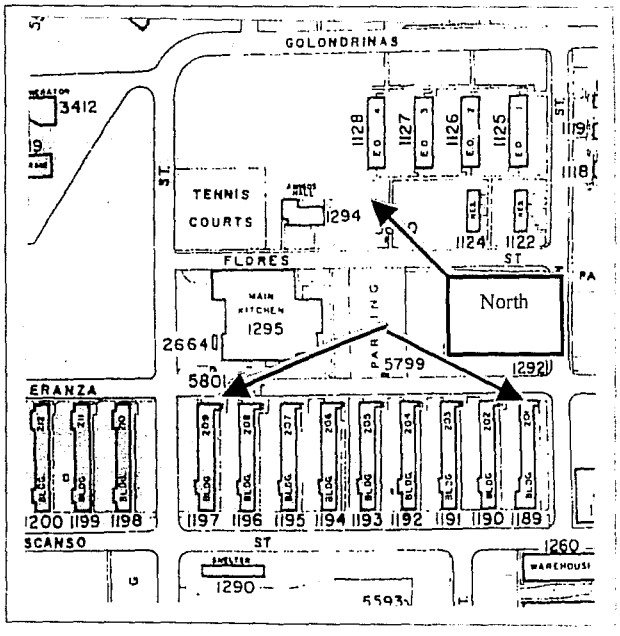
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehaabiltation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10-17-2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 5 **Resource Name or #:** (Assigned by recorder) *LACO #1202/1203*

P1. Other Identifier: *Women's Psychopathic Wards (includes interior courtyard buildings: #1239-1242)*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

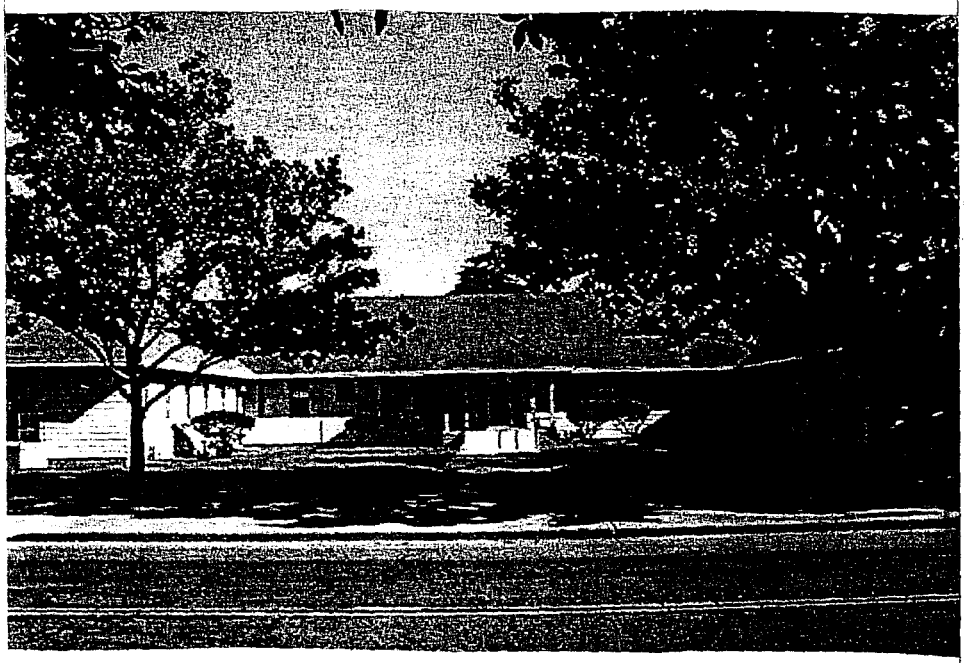
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

In 1916 construction began on a building to house female psychopathic patients. The one-story brick building (Building #1203) was u-shaped in configuration and its primary façade faced toward Erickson Avenue. In 1924-25 the women's wards were expanded through the construction of another u-shaped building, Building #1202, placed to the east of Building #1203. After the completion of Building #1202 the Women's Psychopathic Wards consisted of a quadrangle with a central courtyard that contained three freestanding building housing toilets and a linen room. The courtyard was landscaped with pathways and plantings for the use of the ward's inmates. In their design, materials and architectural scheme, the women's wards recapitulate the Men's Psychopathic Wards on Flores Street. The vernacular style one-story buildings are constructed of brick masonry, and are capped by complex hipped roofs covered in composition shingles. Both buildings' fenestration is comprised of wood frame sash windows set into arched window openings. The main exterior entrances are located at the center of the north elevation of Building #1203 and the south elevation of Building #1202. The west elevation (street facade) of Building #1203 is comprised of a recessed central block, flanked on either side by projecting wings *(Continued pg. 2).*

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1924-1925 (Buildings #1202/1203); 1924-1930 (interior courtyard buildings).

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of RAncho Los Amigos Rehabilitation

P3. Description

It is entirely clad in metal siding. A hipped roof caps the centrally placed entrance porch. A set of double metal and glass doors provides access to the interior. Secondary entrances are located at the end of the projecting wings. The entrance porch is flanked on either side by a series of metal framed windows. The north elevation is comprised of the side wings of Building #1202 and Building #1203. The elevation is linear in configuration with the exception of small projections at its east and west ends. At the building's centerpoint a small brick building, capped by a gable roof, fills the gap between the north elevation's two wings. Fenestration is comprised of a series of rectangular windows that provide light to the interior. The east elevation of Building #1202 mirrors the west elevation's configuration and design scheme. However, unlike the west elevation, it has not been clad in metal siding and retains its original multi-light wood sash windows. The south elevation of Buildings #1202 and #1203 recapitulate the configuration and design scheme of the west elevation. At its centerpoint a masonry wall links the side wings of Building #1202 and Building #1203.

Interior Courtyard of Building #1202/1203

The interior of the Women's Psychopathic Wards recapitulate, on a smaller scale, the design scheme of the adjacent Men's Psychopathic Wards (Building #1204 and Building #1205). It is configured as a large courtyard that houses a symmetrical arrangement of four small buildings and ancillary structures. The courtyard's west elevation is comprised of recessed wings that flank a centrally placed projecting porch (later enclosed). The fenestration of the projecting block is comprised of large, rectangular wood sash windows that flank a centrally placed doorway. The fenestration of the recessed wings is comprised of a symmetrical arrangement of arched and rectangular wood sash windows. The north elevation, with the exception of small projections at its east and west ends, is linear in configuration. It is comprised of the side wings of Building #1202 and Building #1203. This elevation's fenestration is primarily wood sash windows placed in arched or rectangular window openings. At the centerpoint of the interior elevation Building #1240 fills the gap between the building's freestanding wings. The south interior elevation, with its series of wood sash windows, essentially recapitulates the scheme of the north elevation. At the elevation's centerpoint a masonry wall fills the gap between the side wings of Building #1202 and Building #1203.

(Continued pg. 3)

P3. Description

Buildings and Structures within the Central Courtyard

Four small buildings and structures are located within the courtyard of Building #1203 and Building #1204. Three of the buildings are brick construction and one is prefabricated metal.

Building #1239

Built in 1924-1925, this small, rectangular vernacular style brick building is set on an elevated foundation. It is axially aligned with Building #1202. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Concrete ramps lead to doorways on the east and west elevations that provide access to toilet rooms. The building was constructed to house toilet facilities for inmates of the psychopathic wards.

Building #1240

This rectangular shelter building is placed at the center of the quadrangle's courtyard. Available documentation suggests that it was built in 1930. It replaced an earlier wood canopy that is depicted on the 1929 Fire Insurance Map of Rancho Los Amigos. The structure was built to provide shade for the inmates of the psychopathic ward.

Building #1241

Built in 1924-25, this small, rectangular vernacular style brick building is set on an elevated foundation. It is placed in the gap at the center of the north elevation. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Concrete ramps lead to doorway on the north elevation. The building was constructed as a linen storeroom. It was later used as a women's gymnasium.

Building #1242

Built in circa 1919-1925, this small, rectangular vernacular style brick building is set on an elevated foundation. It is axially aligned with Building #1203. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Concrete ramps lead to doorways on the east and west elevations that provide access to toilet rooms. The building was constructed to house toilet facilities for inmates of the psychopathic wards.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1202/1203*

B1. Historic Name: *Women's Psychopathic Wards*
B2. Common Name:
B3. Original Use: *patient wards* B4. Present Use: *vacant*
B5. Architectural Style: *vernacular*
B6. Construction History: (Construction date, alterations, and date of alterations)
The u-shaped brick buildings (since partially covered in vinyl siding) surround a courtyard that once housed female psychopathic patients. Today, the larger buildings, as well as the buildings located within the courtyard are vacant.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a larger complex of patient wards that formed an integral component of the Los Angeles County Poor Farm (later the County Farm and still later the Rancho Los Amigos Hospital).*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Alterations to the Women's Psychopathic Ward's primary street façade (west elevation) have significantly reduced the integrity of the building. The addition of several freestanding buildings to the building's courtyard has also altered the original configuration of this space. Alterations to the interior have modified the configuration of interior spaces that characterized the building during its period of significance. As an individual structure the Women's Psychopathic Ward does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Buildings and Structures within the Interior Courtyard of the Women's Psychopathic Ward

LACO #1239 (Toilet Building): As an individual structure the toilet building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district (cont. pg. 5).

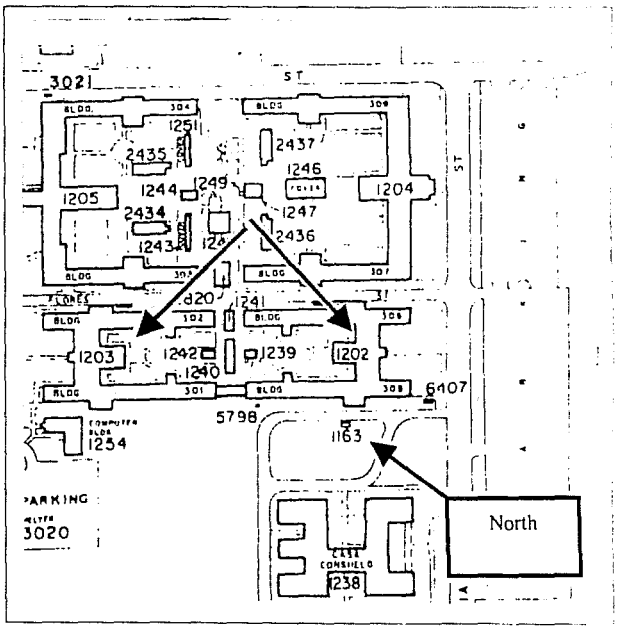
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South CAmpus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



B10. Significance

LACO #1240 (Shelter): This modest prefabricated structure does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1241 (Linen Room): As an individual structure the linen room does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO 1242 (Toilet Building): As an individual structure the toilet building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

State of California.— The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 5 **Resource Name or #:** (Assigned by recorder) *LACO #1204/1205*

P1. Other Identifier: *Male Psychopathic Wards (includes 11 interior buildings: #1243-1246; #1249; #1251; #2434-2437; #3820.*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Building #1204/1205 was constructed over a 17 year period, between 1907 and 1924, to house wards for male psychopathic patien Designed around a central courtyard, the brick building is composed of two u-shaped buildings that form a quadrangle. Within the building's central courtyard are ten accessory buildings and structures that housed restrooms, linen rooms, and outdoor shelters for the patients. The west elevation is the building's street façade. It is comprised of a central projection (with a modified front gable roof) flanked by recessed wings that are capped by a modified hipped roof with triangular vents. The building's street façade is clad metal siding that simulates the appearance of wood siding. At the center of the façade a porch shelters the building's main entranc The fenestration of the recessed wing is comprised of sliding metal windows. The north elevation is linear in configuration. It is comprised of two wings that are linked by a concrete masonry wall. The eastern wing is part of Building #1205 and the western win is part of Building #1204. Each of the wings is linear in configuration, with a two-story, flat-roofed block at its midpoint. The fenestration of both wings is essentially symmetrical, with a balanced arrangement of rectangular or arched windows (Continued pg 2).

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1907-1924 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation

P3. Description

The west wing is sheathed in the same type of metal cladding that is found on the building's street façade. The windows are the same type of metal sliders that are found on the façade. The east wing has the same configuration as the west wing. However, the wing's original brick walls have not been sheathed in metal siding and the original wood sash windows, placed in arched or rectangular openings, are still in place. In its configuration and design, the east elevation of Building #1204 references the west elevation of Building #1205. The wing at the center of the façade has a projecting porch that shelters the wing's primary entrance. The recessed wings on either side of the porch are linear in configuration. Their fenestration is comprised of a symmetrical arrangement of rectangular wood sash windows. The south elevation of the Men's Psychopathic Ward recapitulates the appearance and configuration of the building's north elevation. However, the building's two wings are not linked by a wall, as is the case with the north elevation. Instead, a small freestanding building, capped by a front gable roof, fills the gap between the two wings. The west wing is sheathed in the same type of metal siding that is found on the building's west elevation. The fenestration of the west wing of the building is comprised of an essentially symmetrical arrangement of arched and rectangular windows. At the east end of Building #1205 is a small front gable building (Building #3820) that is placed on an elevated platform. The east side of Building #3820 is flanked by the south elevation of Building #1204. The fenestration of this wing recapitulates the south elevation of Building #1205. The interior of the Men's Psychopathic Ward Building is a large courtyard that houses a symmetrical arrangement of ten small buildings and ancillary structures. The courtyard's west elevation is comprised of recessed wings that flank a centrally placed projecting element. At either end of the elevation are two wood frame sunrooms, whose fenestration is comprised of a series of wood frame sash windows. The fenestration of the projecting block is comprised of large, rectangular wood sash windows that flank a centrally placed doorway. The fenestration of the recessed wings is comprised of a symmetrical arrangement of arched and rectangular wood sash windows. The north elevation is linear in configuration. It is comprised of the side wings of Building #1204/1205. Its fenestration is primarily wood sash windows placed in arched or rectangular window openings. At the centerpoint of the interior elevation a stucco-covered cinderblock wall links the building's freestanding wings. The south interior elevation recapitulates the appearance of the north elevation. At the elevation's centerpoint a small front gable building (Building #3820) fills the gap between the side wings of Building #1204 and Building #1205. Eleven small buildings and structures are located within the courtyard of Building #1204/1205. Three of the buildings are brick construction, four are prefabricated metal, one is wood frame and the remaining three are free standing metal canopy shelters.

Eleven small buildings and structures are located within the courtyard of Building #1204/1205. Three of the buildings are brick construction, four are prefabricated metal, one is wood frame and the remaining three are free standing metal canopy shelters.

Aviary (no number)

The aviary is a small rectangular structure capped by a gable roof. Its walls are primarily comprised of screening. Built in the late nineteenth century the aviary was originally located adjacent to the 1889 office building.

LACO#1243 (Canopy Shelter)

This narrow, rectangular prefabricated metal canopy shelter is located at the north end of the courtyard. It is capped by shallow metal shed roof. The structure was erected sometime between the early 1960s and the mid-1970s (the building is depicted on a 1974 map of the facility). It replaced an earlier canopy shelter depicted on a 1929 site plan of Rancho Los Amigos.

LACO#1244

This small, rectangular brick building is set on an elevated foundation. It is axially aligned with Building #1205. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Doorways on the east and west elevations provide access to the toilet facilities. The building was constructed in 1916 to house toilet facilities for the inmates of the psychopathic wards.

(Continued pg. 3)

P3. Description

LACO#1245

This small, rectangular brick building is set on an elevated foundation. It is placed at the center of the courtyard and is axially aligned wi the gap between Building #1204 and Building #1205. The building is capped by hipped roof and its fenestration is comprised of wood sash windows. Doorways on the east and west elevations provide access to the interior. The building was constructed sometime between 1917 and 1925 as a linen room for the Men's Psychopathic Wards.

LACO #1246

Building #1246 is axially aligned with the center of Building #1204 (Figure 51). This aluminum canopy shelter is comprised of metal pole. supporting a slightly pitched metal roof. The shelter was erected sometime between the early 1960s and the mid-1970s (the shelter is depicted on a 1974 map of the facility; however, it does not appear on the Sanborn Fire Insurance maps of the Rancho.

LACO #1249

This small, rectangular brick building is set on an elevated foundation (Figure 52). It is axially aligned with Building #1204. The building i capped by hipped roof and its fenestration is comprised of wood sash windows. Doorways on the east and west elevations provide access to the toilet facilities. The building was constructed to house toilet facilities for the inmates of the psychopathic wards.

LACO #1251

This narrow, rectangular prefabricated metal canopy shelter, supported by metal poles, is located in the northwest quadrant of the courtyard (Figure 53). The shelter was erected sometime in the late 1950s or early 1960s (the shelter is depicted on a 1974 map of the facility; however, it does not appear on the Sanborn Fire Insurance maps of the facility.

LACO #2434

Building #2434 is located in the southwest quadrant of the courtyard. This prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprisec of multi-light metal frame windows. This building was erected in 1949. The original function of this structure is unknown. In later years it was used as a gymnasium.

LACO #2435

Building #2435 is located in the northwest quadrant of the courtyard. This prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. This building was erected in 1949. The original function of the structure is unknown.

LACO #2436

Building #2436 is located in the northeast quadrant of the courtyard. This prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. The building was erected in 1949. The original function of this structure is unknown.

LACO #2437

Building #2436 is located in the southeast quadrant of the courtyard. Like Building #2436, this prefabricated metal building has a rectangular footprint and is capped by a shallow front gable roof. Doorways to the interior are located in the north and south elevations. Its fenestration is comprised of multi-light metal frame windows. The building was erected in 1949. The original function of this structure is unknown.

LACO #3820

This small, stucco clad, rectangular building is placed in the center of the south elevation, in the gap between the wings of Building #1204 and Building #1205. It is placed on an elevated platform that allows its south elevation to function as a loading dock for trucks. The north elevation is accessed via a concrete ramp that leads to a centrally placed doorway. Small windows are placed on the east and west elevations. The building was constructed in 1954.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1204/1205*

B1. Historic Name: *Male Psychopathic Wards*

B2. Common Name:

B3. Original Use: *patient psychopathic wards* B4. Present Use: *vacant*

B5. Architectural Style: *vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

The u-shaped brick buildings, designed around a central courtyard, were constructed between 1907 and 1924 to house male pyschopathic patients.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of patient wards that formed an integral component of the Los Angeles County Poor Farm (later the County Farm and still later Rancho Los Amigos Hospital).*

B9a. Architect: *Hudson & Munsell; Montrose Warn (addition)* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Alterations to the Men's Psychopathic Ward's primary street façade (west elevation) have significantly reduced the integrity of the building. The addition of several freestanding buildings to the building's courtyard has also altered the original configuration of this space. Alterations to the interior have modified the configuration of interior spaces that characterized the building during its period of significance. Therefore, the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

Buildings and Structures within the Central Courtyard of LACO #1204/1205

Eleven small buildings and structures are located within the courtyard of Building #1204/1205. A total of five buildings either post-date the South Campus's period of significance (which ended in 1950) or are prefabricated structures that do not require further evaluation. These include the following: LACO #1243, LACO #1246, LACO #1251 and LACO #3820. The remaining structures are evaluated below:

(Continued pg. 5)

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

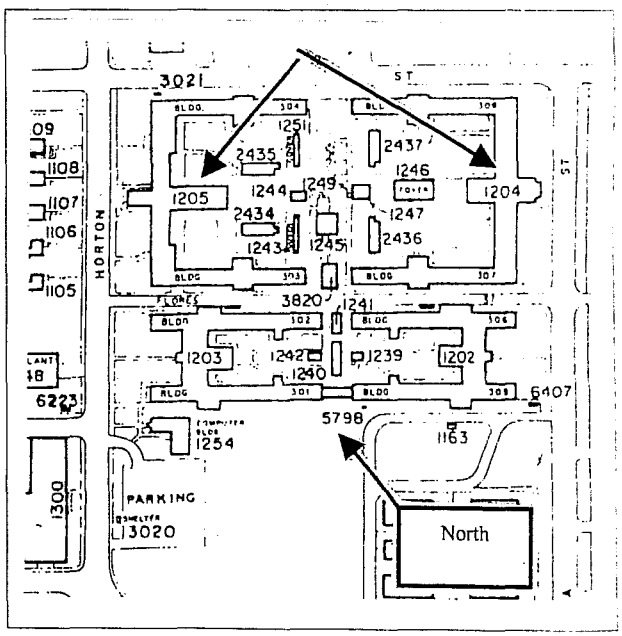
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, CAlifornia

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



B10. Significance

LACO #1244 (Toilet Building): As an individual structure the toilet building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is n part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1245 (Linen Room): As an individual structure the linen room does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is n part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #1249 (Toilet Building): As an individual structure the toilet building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is n part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

LACO #2435, #2436, #2437, (Metal Buildings): As an individual structures these prefabricated buildings do not have the type of historic associations or architectural significance that would make them eligible for nomination to the National Register of Historic Places on an individual level. In addition, each individual structure is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z
Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #1207*

P1. Other Identifier: *Work Preparation Center #2*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

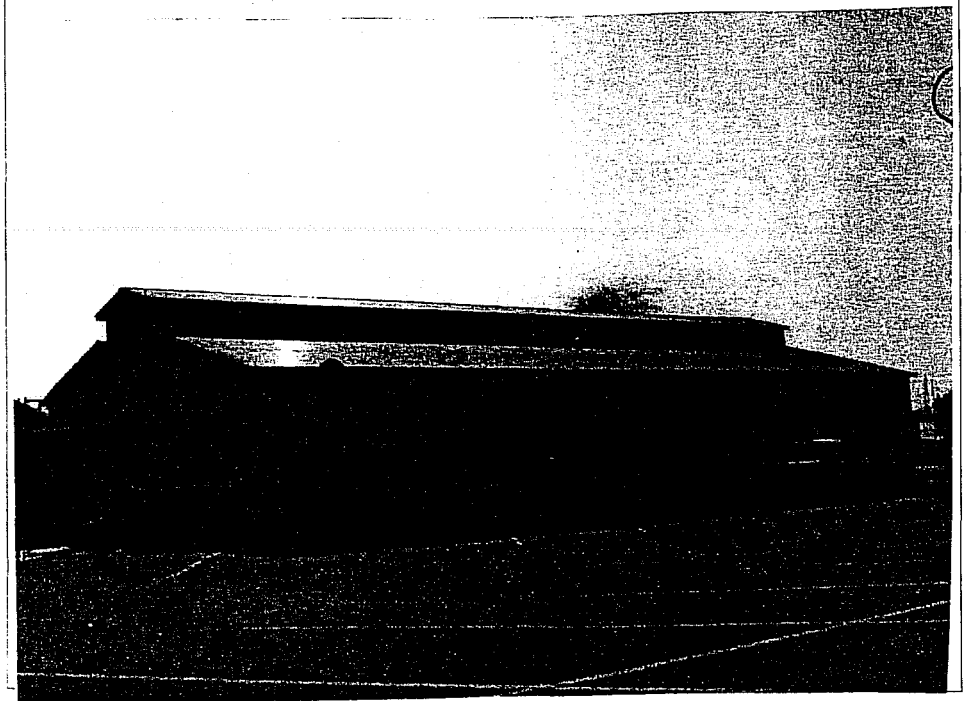
The Work Preparation Center (Building #1207), built in circa 1915-1925, faces toward Laurel Street. It is a barn style building cappe by a monitor style roof . The rectangular building's roof and walls are clad in corrugated metal siding. Its fenestration is comprised o rectangular wood frame windows. The façade is linear in configuration. At the center of the façade a wood panel and glass door provides access to the interior. It is flanked on either side by sliding wood panel and glass doors that have been fixed in place. Rectangularly shaped windows flank the doors. At the apex of the elevation a set of double doors that once provided access to the loft has been sealed over. The north elevation is linear in configuration. Its first floor's fenestration is comprised of a linear arrangement of rectangular wood frame windows.

The east elevation recapitulates the configuration and detailing of the west elevation. A canopy links this elevation with Building #1259. The south elevation largely recapitulates the configuration and detailing of the north elevation.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1915-1925 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1207*

B1. Historic Name: *Barn*
B2. Common Name: *Work Preparation Center #2*
B3. Original Use: *Barn* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1207 may have been constructed as late as 1925. However, it is likely that the barn was constructed earlier and moved to its present site in 1925. In its design, configuration and construction details the building (Continued pg. 3)

B7. Moved? ☐ No ☐ Yes ☒ Unknown Date : *Circa 1925* Original Location: *Behind Bldg. #1259*

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Work Preparation Center represents a fairly common example of an early twentieth century vernacular style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

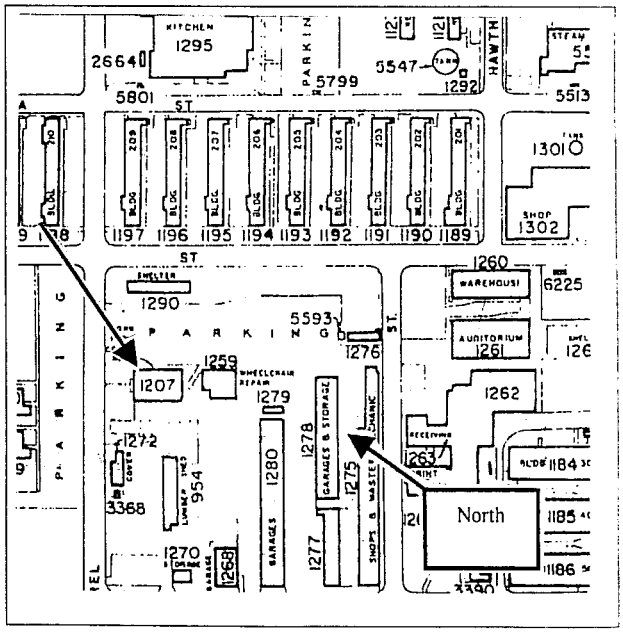
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

resembles a monitor style barn depicted on the 1922 aerial photograph of the Rancho. At that time it was located behind Building 1259. In the mid-1920s the building was converted into a general ward building (Ward 104). While this was supposed to be a temporary measure, it appears to have remained a ward until World War II. During the war the barn housed a war effort scheme that was staffed by hospital inmates. After the war the building became the Work Preparation Center #2.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 3 **Resource Name or #:** (Assigned by recorder) *LACO #1238*

P1. Other Identifier: *Casa Consuelo*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Casa Consuelo is a two-story, h-shaped reinforced concrete and tile building located near the intersection of Dahlia and Consuelo Streets. It is set in an expanse of lawn and is surrounded by foundation shrubs. Large fan tail palms delineate the perimeter of the building. The building was completed in 1930 as a women's residential ward. Capped by end gable roofs, covered in c-shaped terra cotta tiles, and embellished with arcades and wrought-iron balconies and staircases, Casa Consuelo was designed in the Spanish Colonial Revival style. The west elevation is comprised of a number of projections and recessions. Its first floor and second floor fenestration consists of a balanced arrangement of wood casement windows. At the south end of the elevation an iron staircase provides access from the second floor to the ground level. The south elevation (facing toward Consuelo Street) is comprised of a recessed courtyard flanked on either side by linear wings. The courtyard is embellished with an arcuated portico capped by a solid parapet. On either side of the arcade flat-roofed towers, embellished with wrought-iron balconies on the second floor, rise above the eave line. The towers are flanked by linear wings whose fenestration is comprised of a double row of rectangular wood casement windows. Double French doors are placed in the tower's second floor and at the end of each wing. The east elevation (street facade) is u-shaped in configuration. The elevation's projecting wings are linked by an arcuated portico. At the center of the façade a set of double doors provides access to the buildings interior (cont. on page 2)

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1928 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93015

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation

P3. Description

The fenestration of the east elevation consists of a symmetrical arrangement of wood casement windows. The north elevation recapitulates the configuration and design scheme of the south elevation's configuration. The north elevation's projecting wings are linked by an arcuated portico. Its fenestration is comprised of a balanced arrangement of wood casement windows.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1238*

B1. Historic Name: *Women's Ward (changed to Casa Consuelo in 1940)*

B2. Common Name: *Casa Consuelo*

B3. Original Use: *women's patient ward* B4. Present Use: *vacant*

B5. Architectural Style: *Spanish Colonial Revival*

B6. Construction History: (Construction date, alterations, and date of alterations)

The two-story H-shaped women's residential ward was completed in 1930 in order to help allivate overcrowded conditions in the existing women's patient wards. Rather than large wards, Casa Consuelo housed patients in small single- to two occupancy residential rooms.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of patient wards that formed an integral component of the County Farm and later the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Casa Consuelo is an excellent example of the Spanish Colonial Revival style applied to a large institutional building. The building has several character-defining features of the Spanish Colonial Revival style, including its arcuated porticos, moderately pitched roof covered in c-shaped Spanish style tiles, wrought iron embellishments, u-shaped courtyards, and the primacy of the wall surface. The building's symmetrical massing, while somewhat uncharacteristic of the style, is a characteristic feature of institutional architecture, which often necessitated the used of rational floor plans. Because the building is an excellent example of the Spanish Colonial Revival style as applied to public institutional architecture it is eligible for designation to the National Register of Historic Places under Criterion c.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

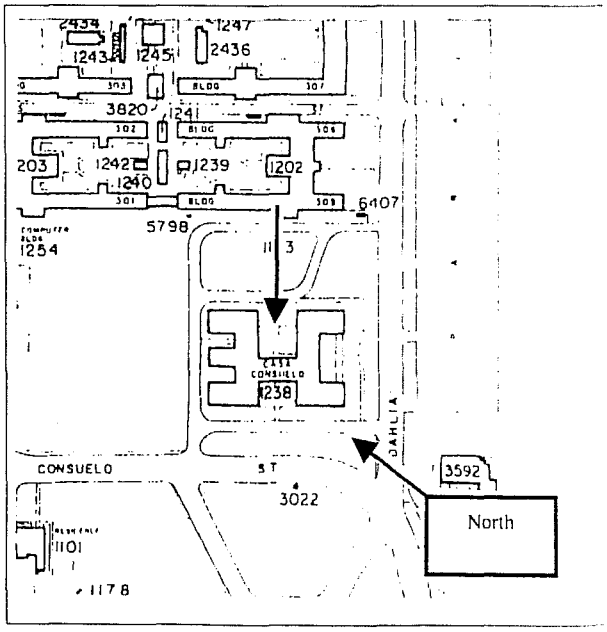
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South CAmpus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1254*

P1. Other Identifier: *Former Chapel*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The former chapel is located just southwest of the Women's Psychopathic Ward building. Built in 1907, the L-shaped wood frame building is capped by an intersection front gable roof with boxed eaves. The building is clad in metal siding. The west elevation (street facade) is comprised of a projecting wing that is flanked on its south side by a recessed wing. The projecting wing, which once functioned as the chapel for Rancho Los Amigos, has an elevated front porch capped by a hipped roof. The porch shelters the building's main doorway and is flanked on either side by metal frame windows set into rectangular openings. A doorway, accessed via a concrete ramp, is placed at the north end of the recessed wing. The north elevation is linear in configuration. Its fenestration is comprised of a series of five metal windows set into rectangular openings. The east elevation is linear in configuration. It is comprised of the rear elevation of the chapel and the side elevation of the attached wing. Its fenestration is comprised of a series of rectangular metal frame windows. The south elevation is comprised of a recessed wing flanked on the east by a projecting wing. The fenestration of the projecting wing is comprised of two aluminum sliders. The fenestration of the former chapel is a series of four metal frame windows. A concrete ramp, leading to a door, flanks the entire length of the chapel's side elevation.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1907; remodeled circa 1955 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabiltation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1254*

B1. Historic Name: *Chapel*
B2. Common Name:
B3. Original Use: *Chapel* B4. Present Use: *vacant*
B5. Architectural Style: *vernacular*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1907 this one-story building was moved in 1919 to make way for the construcion of the Women's Pyschopathic Ward. In 1955, a new chapel was built near the intersection of Dahlia and Consuelo Streets (cont. pg. 3).

B7. Moved? ☐ No ☒ Yes ☐ Unknown Date : *1919* Original Location: *site of present Building #1202/1203*
B8. Related Features:

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The former chapel building is not at its original location. Beginning in the postwar period it has undergone a fairly extensive series of alterations, including the addition of a side wing, the addition of metal siding, and the replacement of the original wood windows with metal windows. Because of these alterations the building as a low level of integrity in regard to its design and location. Because of these alterations the building does not retain sufficient integrity for further evaluation.

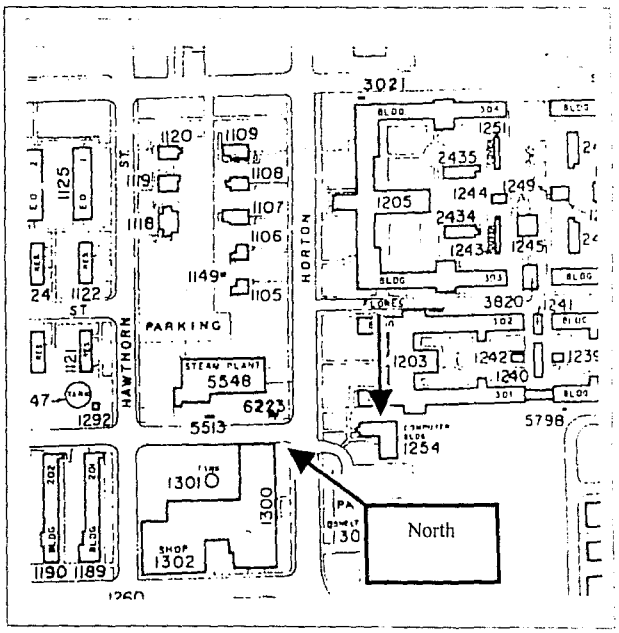
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Suvey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



B6

The original chapel was readapted, a wing was added, along with new metal siding and windows. Initially it was used as a library, by the late 1960s, for various office uses.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1256*

P1. Other Identifier: *Toilet Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

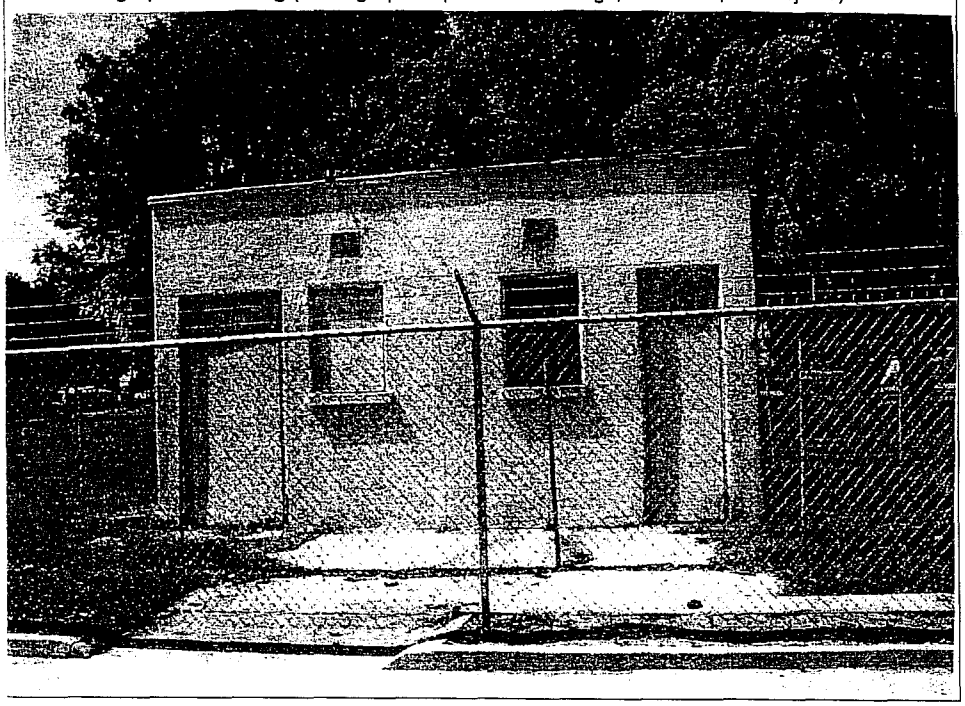
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located southeast of the row of five general wards, the Toilet Building (Building #1256), is a one-story concrete masonry building capped by a flat roof. The east elevation faces toward Erickson Avenue. Doorways flank two rectangular windows set at the center of the façade. The north and west elevations each have two small windows. The west elevation is a blank wall.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1926 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Streeet, Santa Barbara, CA 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehaabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1256*

B1. Historic Name:

B2. Common Name: *Toilet Building*

B3. Original Use: *Restroom* B4. Present Use: *Vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

The toilet building was constructed in 1926 the same year that the nearby two-story wards were built. It has undergone few modifications since its construction. The physical condition of the buildings is fair.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of farm buildings that formed an integral component of the Los Angeles County Farm and still later, Rancho Los Amigos Hospital.*

B9a. Architect: *Unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

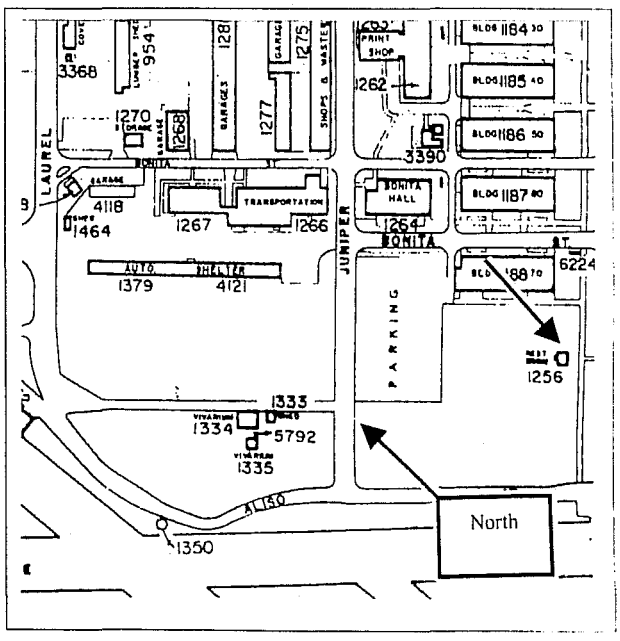
Utilitarian in design the Toilet Building represents a fairly common example of an early twentieth century institutional building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:



B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #1259*

P1. Other Identifier: *Wheelchair Repair Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

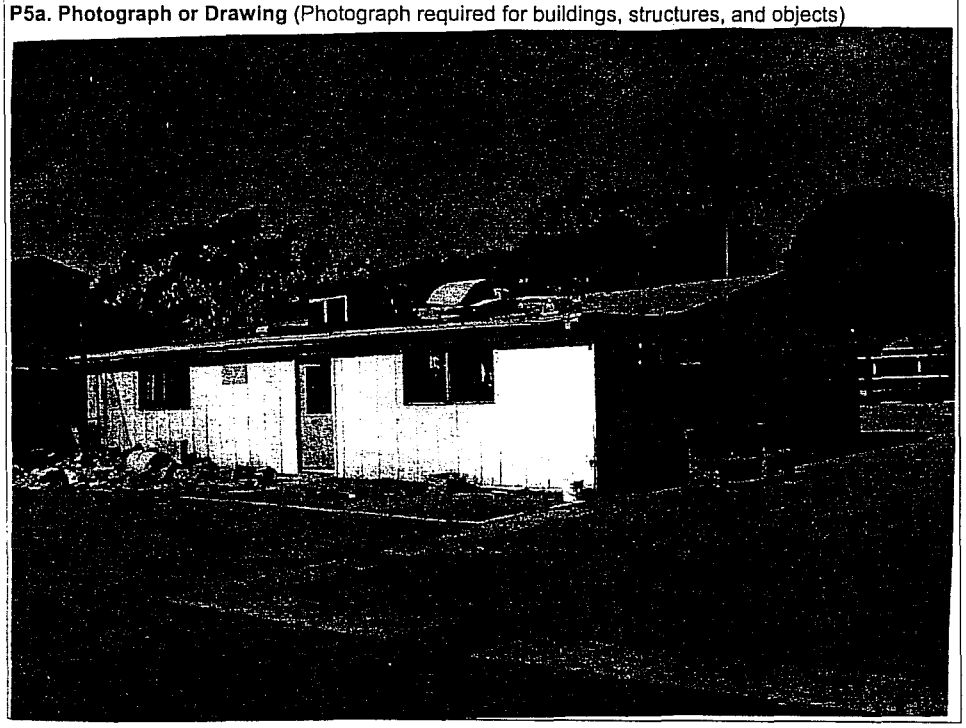
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Wheelchair Repair Building (Building #1259), built in 1931, is located directly behind Building #1207. The one-story, wood frame vernacular style building is capped by an intersecting gable roof. Its fenestration is a combination of metal frame and wood sash windows. The south elevation represents a more recent addition to the building.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1931 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Sana Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1259*

B1. Historic Name: *Laundry Building*
B2. Common Name: *Wheelchair Repair Building*
B3. Original Use: *Laundry facility* B4. Present Use: *Vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1259 was built in 1931. Originally it was a rectangular one-story building flanked by an open loggia on its east side. It was built to house a laundry. In later years it was altered and expanded *(Continued pg. 3).*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

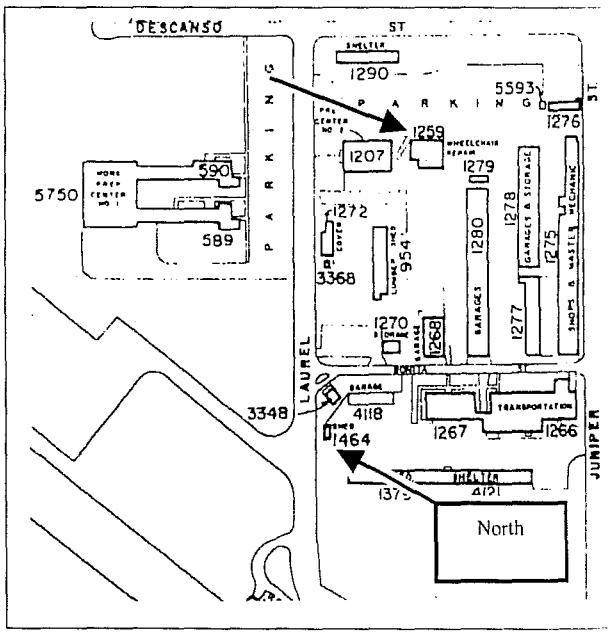
The Wheelchair Repair Building has undergone a series of alterations and modifications. The loggia that projected off of the east elevation was enclosed and an addition was made to the south elevation. Many of the existing metal frame windows have been replace within the last 35 years. A number of these alterations occurred during the building's period of significance. However the scope of these modifications has so altered the building that it no longer represents the original vernacular style of the building. Therefore, it does not retain sufficient physical integrity to represent its architectural type and period of historic significance.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:



B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)

B-6

Sometime in the 1930s or 1940s an addition was built off of the south elevation that enclosed the loggia. The building eventually housed the wheelchair repair and sign shops, as well as a small locker room.

P3. Description

The second floor fenestration is comprised of a series of what appear to be double casement windows windows (the windows have been covered with wood sheeting making precise identification difficult). Originally, the second floor was a screened porch. The south elevation essentially mimics the design of the north elevation. Its wall surface is divided into an arcade by eight flattened arches. Sets of paired wood sash windows, on the first and second floors, fill blind arcades. Several of the original sets of pair windows have been altered, removed or replaced by doors. A staircase is set into a recessed entry at the west end of the elevation.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1260*

B1. Historic Name:

B2. Common Name: *Bathhouse*

B3. Original Use: *patient bathing facility*

B4. Present Use: *vacant*

B5. Architectural Style: *Stripped Classicism*

B6. Construction History: (Construction date, alterations, and date of alterations)

The building was constructed in 1922 to serve as a bathhouse for the County Farm's patients. Its second floor housed patient wards. The plan and design scheme of the building replicates that of *(Continued pg. 4)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the County Farm and still later, Rancho Los Amigos Hospital.*

B9a. Architect: *Montrose Warn*

b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the bathhouse represents a fairly common example of an early twentieth century institutional building th eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type historic associations or architectural significance that would make it eligible for nomination to the National Register of Histor Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

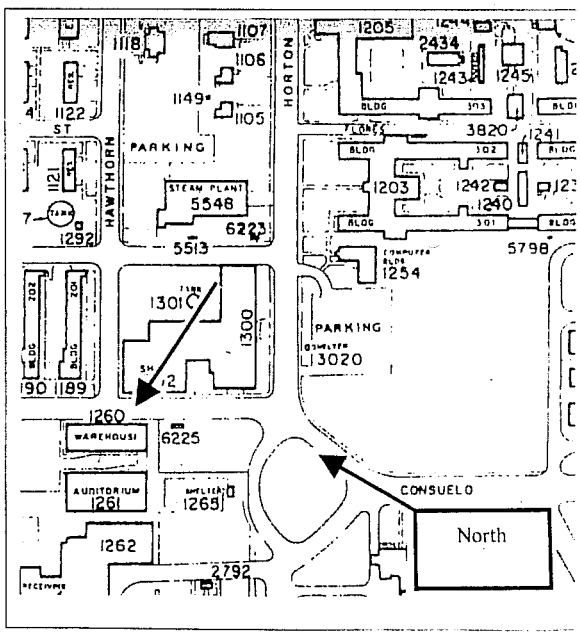
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



B-6

Buildings #1184, #1185, and #1185, which were built in 1914. Later in its history the bathhouse was used as the linen mending room. Ir the late 1950s the building was transformed into a storage facility. Over the years the building has undergone a number of alterations, including the replacement of doors and windows, others of which were sealed over. Sometime after 1930 the screened-in porch on the second floor was remodeled into an interior space.

State of California.— The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3

Other Listings
Review Code ____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #1261*

P1. Other Identifier: *Auditorium*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Auditorium (Building #1261) is located across a narrow walkway from the Bathhouse building. The flat-roofed, stucco clad, two-story masonry building, built in 1928, represents a reductive example of the Art Deco style. The east elevation is linear in configuration. At the center of the building a pylon-shaped entrance projects from the building's facade. Within the pylon three pair doors are flanked on either side by masonry piers. Multi-light windows set into deep reveals flank either side of the projecting pylon The second floor fenestration consists of a symmetrical arrangement of three narrow, rectangular windows placed above the entrance. The south elevation is linear in configuration. Its fenestration is confined to a number of small rectangular windows set a the west end of the elevation. The west elevation is linear in configuration. A sealed doorway is located at the west end of the doorway. The doorway, which is not set at ground level, is missing its access ramp or stairway. The north elevation is linear in configuration. Its fenestration is confined to a number of small rectangular windows set at the west end of the elevation. The building's interior contains an Art Deco style proscenium arch.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1928 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1261*

B1. Historic Name:

B2. Common Name: *Auditorium*

B3. Original Use: *auditorium/cinema* B4. Present Use: *vacant*

B5. Architectural Style: *Art Deco*

B6. Construction History: (Construction date, alterations, and date of alterations)

The Auditorium was built in 1928 on the site of the 1888 Refectory Building which was demolished shortly before the Auditorium was built. The Auditorium is the only Art Deco style building at Rancho Los Amigos (Continued pg. 4).

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once a part of a larger complex of buildings that formed an integral component of the County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

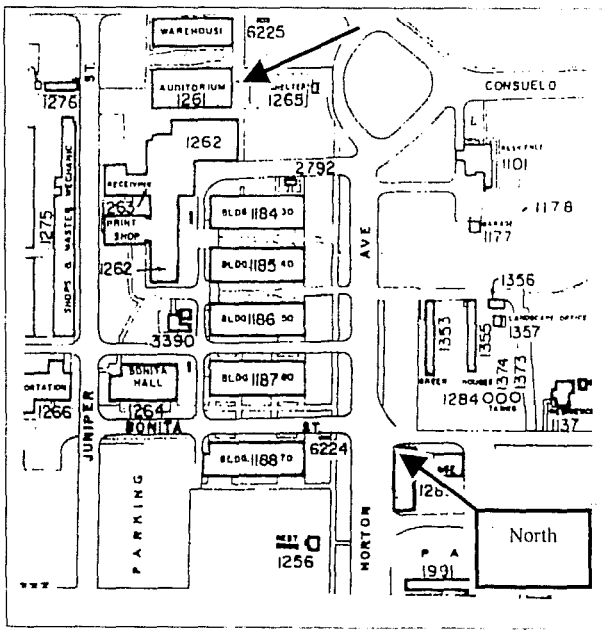
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Auditorium building has undergone several alterations and modifications since its construction. Sometime in the past the building's brick exterior was covered in stucco. The original front doors have been replaced and some of the Art Deco detailing of the interior has been removed or destroyed. These alterations have diminished somewhat the integrity of the building. However, despite these changes the building retains sufficient physical integrity to represent its architectural type and period of historic significance. As the only example of Art Deco design in the Rancho Los Amigos complex the Auditorium is an unique example of the institution's use of this style. Therefore, the building, which has retained sufficient integrity to represent its architectural style and period of historic significance, qualifies under Criterion c.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California



B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)

B-6

The building has undergone several alterations and modifications since its construction. Sometime in the past the building's brick exte was covered in stucco. The original front doors have been replaced and some of the Art Deco style detailing of the interior has been removed or destroyed.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Resource Name or #: (Assigned by recorder) *LACO #1262/1263*

P1. Other Identifier: *Dining Rooms, Kitchen, Commissary and Staff Rooms*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Building #1262/1263, which contained the dining, kitchen, commissary and staff rooms, flanks the south side of the Auditorium. Bui between 1910 and 1921, the two-story, vernacular style brick building is made up of a series of interlocking rectangular volumes. T first floor of the building contained staff and patient dining rooms, a kitchen, a reading room, and the commissary store. The secon floor contained staff rooms. While the building was constructed in several phases, its different wings share several design motifs, including arched windows, decorative stringcourses, flat roofs, and solid parapets. The east elevation is comprised of a number of projections and recessions. At the north end of the elevation is a two-story tall projecting wing. Its fenestration is comprised a serie of arched windows and two large bay doors on the first floor. Brick cornices delineate division between the first and second floors. The second floor fenestration is comprised of a series of arched windows. A projecting brick cornice that is capped by a solid parap delineates the base of the wall plate. This wing's first floor once housed staff and patient dining rooms, and a reading room. Its second floor housed staff rooms. A recessed one-story wing attached to the southwest corner of the dining room wing housed the main kitchen (Continued pg. 2).

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1910-1921 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabiltation

P3. Description

Its fenestration is comprised of an asymmetrical arrangement of four square windows. At the south corner of the elevation metal stairs lead to the flat roof. Near the center of the roof a glass and metal skylight provided light to the kitchen. The kitchen wing of the building is flanked on its south side by a two-story block that contained additional dining rooms on the first floor and rooms for staff on the second floor. The fenestration of both its first and second floors is comprised of a series of arched windows. At the elevation's center point an arched bridge links the building's second floor with the general wards located just east of Building #1262. The bridge shelter's the wing's main entrance. The south elevation is essentially L-shaped in configuration. The recessed element of the elevation is U-shaped in configuration and is two-stories in height. Its fenestration is comprised of a symmetrical arrangement of rectangular windows. The projecting wing of the elevation is linear in configuration. Its fenestration is comprised of series of arched windows on the first and second floors. The west elevation is comprised of a complex series of projections and recessions that form a centrally placed u-shaped courtyard flanked by projecting wings. The fenestration is primarily comprised of sash windows set into arched openings. A metal canopy runs the length of the recessed wing at the south end of the elevation. This wing was originally a freestanding building (Building #1263) that was later joined to Building #1262 by a one-story hyphen. At the north end of the elevation a metal canopy shelters the building's primary main loading bay. The north elevation is comprised of a number of projections and recessions. Its fenestration is comprised of arched door and window openings.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1262/1263*

B1. Historic Name:

B2. Common Name: *Dinning Rooms, Kitchen, Commissary and Staff Rooms*

B3. Original Use: *dining; kitchen and staff facility* B4. Present Use: *dining, kitchen and staff facility*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Buildings #1262/1263 were built over a 11- year period, between 1910 and 1921. Building #1263 was built in 1910 to serve as the commissary for the County Farm. Three years later, in 1913, a two-story building *(Continued pg. 4)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Poor Farm and still later, the County Farm and Rancho Los Amigos Hospital.*

B9a. Architect: *George Low* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Unlike many of the other vernacular buildings on the South Campus of Rancho Los Amigos the exterior of the Building #1262/1263, which has retained its integrity, represents an excellent example of an early twentieth century vernacular building. While utilitarian in design, the building's brick walls, arched windows and simple cubic volumes are representative of a type of industrial/vernacular design that was a common feature of Los Angeles' urban buildings during the early twentieth century. Therefore, the building does have the type of architectural significance to qualify under Criterion c, at the local level, for nomination to the National Register of Historic Places.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

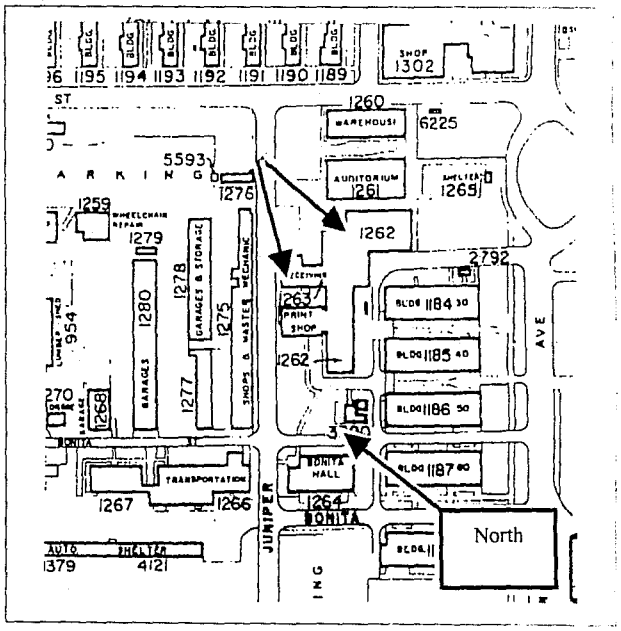
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



B-6

(Building #1262) was built to house the kitchen and main dining rooms. Between circa 1914 and 1920, a one-story kitchen wing was added to the southwest corner of the building and later a two-story wing to the south elevation of the kitchen wing. Finally, in 1921, a one-story wing was built to link the kitchen wing to the commissary. The second floor of the building housed staff residential rooms. Several modifications have been made to the building since its last large-scale expansion in 1921. Since that time the building's exterior has been painted and modifications have been made to its interior. Within the last ten years arson and vandalism have damaged the building's interior.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1264*

P1. Other Identifier: *Bonita Hall*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

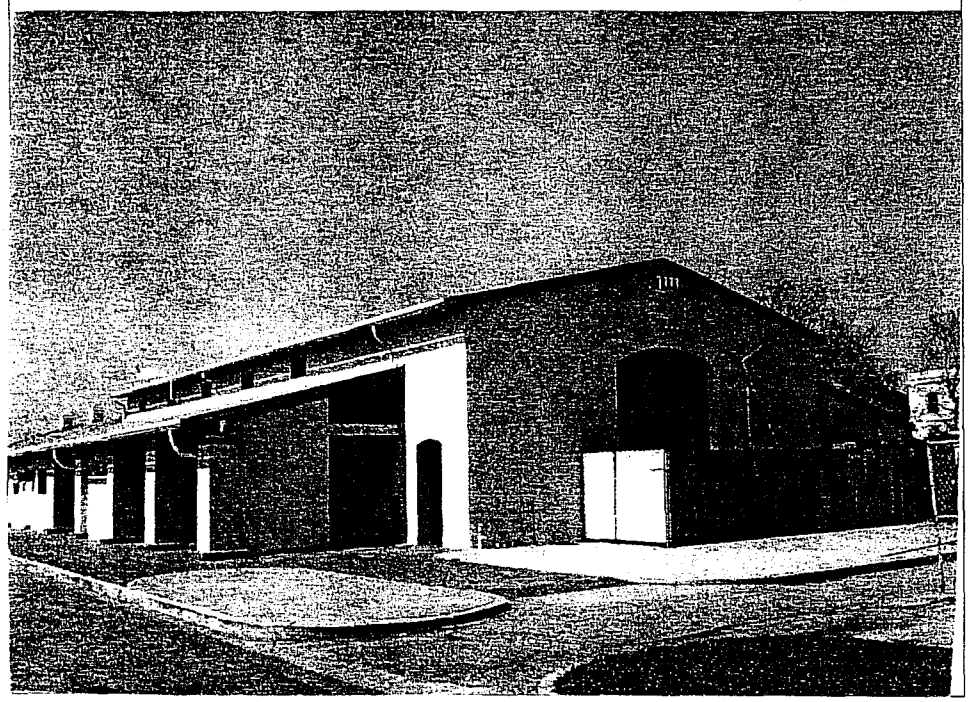
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Bonita Hall, built in 1932, is located at the intersection of Juniper and Bonita Streets. It is one-story building capped by a composition shingle, monitor style roof. An arcade, which has largely been filled in, runs the length of the south elevation. The south elevation is linear in configuration. An arcade, capped by a shed roof and supported by square masonry piers, runs the length of the elevation. Three of the arcade's six bays have been infilled with masonry. Metal framed slider windows are set into the infilled walls. The main entrance is set into the elevation's third bay. At the west end of the elevation a shed roofed wing projects from the side of the building. The west elevation is comprised of a one-story shed-roofed wing. Its fenestration is comprised of two rectangular windows set at either end of the elevation. At the north end of the elevation a pre-fabricated metal structure has been added to the building. The north elevation is linear in configuration. Rectangular windows flank a doorway near the east end of the elevation. A series of seven windows, placed just above the top of the shed roof, provide light to the building's interior. The east elevation consists of a central element capped by front gable roof that is flanked by lower, shed roofed aisles. Its fenestration consists of a large, arched, multi-light window.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1932 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehaabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1264*

B1. Historic Name:

B2. Common Name: *Bonita Hall*

B3. Original Use:

B4. Present Use: *meeting hall*

B5. Architectural Style: *Spanish Colonial Revival*

B6. Construction History: (Construction date, alterations, and date of alterations)

Bonita Hall was built in 1932 to serve the recreational and social functions for the residents of Rancho Los Amigos. Designed i the Spanish Colonial Revival style the building originally had a tile roof *(Continued pg. 3)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings tha formed an integral component of the Los Angeles Count Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *Edward C. N. Brett* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Bonita Hall was extensively remodeled in 1974 when its tile roof was removed, windows replaced or altered, and its open arc partially infilled. These alterations have so altered the building that it no longer retains sufficient integrity to convey its orig design or represent its period of significance.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

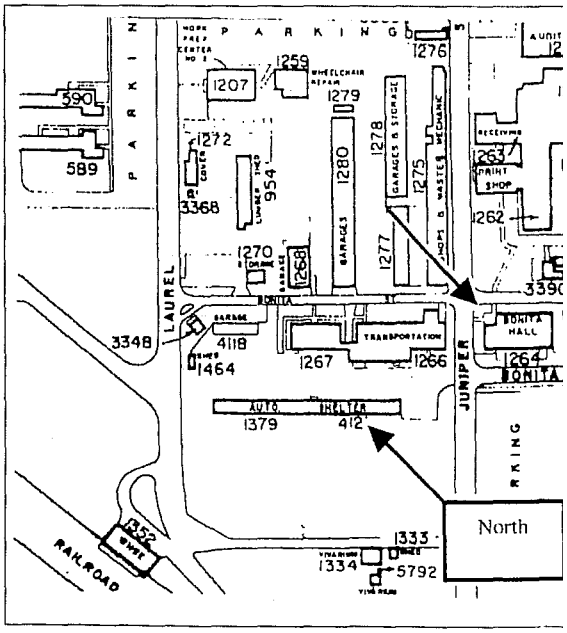
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1266*

P1. Other Identifier: *Occupational Therapy Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** T ; R ; 1/4 of 1/4 of Sec ; B.M

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

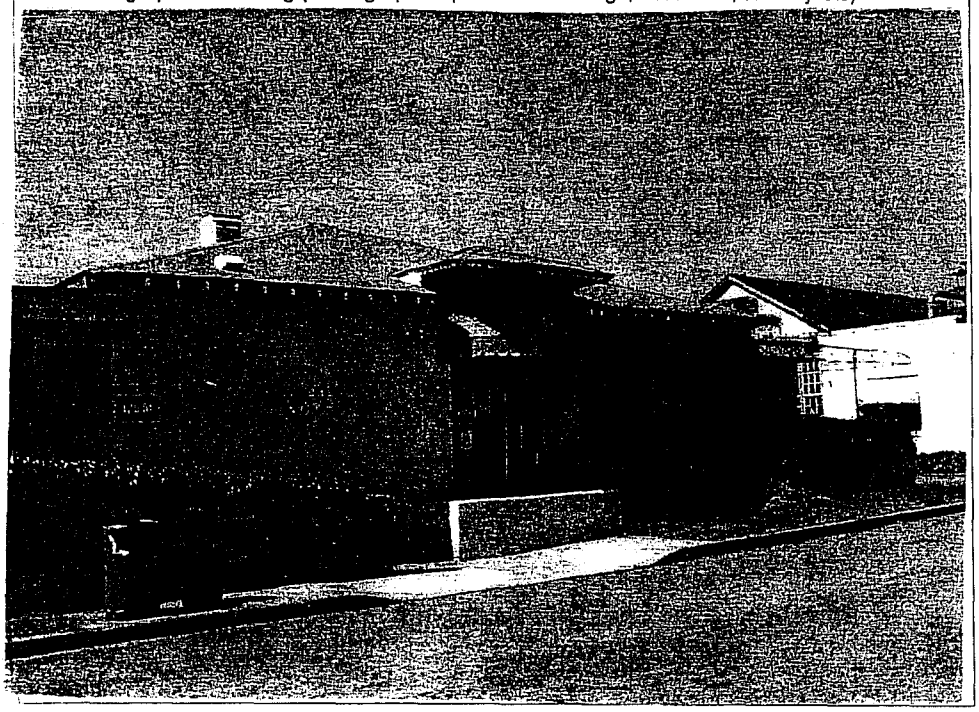
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Occupational Therapy Building, built in 1928, is located across Juniper Street from Bonita Hall. The one-story wood framed, stucco-clad building is capped by a complex hipped roof. Exposed rafter tails support the roof's overhanging eaves. Fenestration is primarily comprised of multi-light wood casement windows. The east elevation is the building's street façade. At the center of the façade a hipped dormer style roof caps a multi-light wood frame window. The window is flanked on either side by circular plaster medallions that depict a man planning a log. Decorative quoins are placed on either end of the façade. At the south end of the elevation a shed-roofed porch is attached to the building. The north elevation, with the exception of a small projecting wing at the south end of the elevation, is linear in configuration. Its fenestration is comprised of a series of rectangular wood frame windows. Most of the windows at the west end of the building have been removed. The west elevation is linear in configuration. Its fenestration, which once consisted of a series of several rectangular windows, has been removed. Remnants of a breezeway that once linked the *(Continued pg. 2)*

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1922 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 90012

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

P3. Description

Occupational Therapy Building to Building #1267 still exist at the south end of the elevation.
A shed roof porch shelters the east end of the elevation. The porch's posts are supported by masonry piers. The porch looks out on an elaborate series of garden beds that are surrounded by a masonry wall. A series of double French doors comprise the fenestration of this part of the elevation. The porch is flanked on its west side by a projection. This part of the building has been, to a large extent, stripped down to the studs. Most of the original windows and the exterior cladding have been removed.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1266*

B1. Historic Name: *Descanso Hall*
B2. Common Name: *Occupational Therapy Building*
B3. Original Use: *patient occupational therapy* B4. Present Use: *meeting hall*
B5. Architectural Style: *Modified Moderne*
B6. Construction History: (Construction date, alterations, and date of alterations)
Originally called Descanso Hall, Building #1266, was built in 1928 to house the patient occupational therapy department. Phased out after Worle War II the building was later used as a social center *(Continued pg. 4)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The former Descanso Hall (Occupational Therapy Building) has undergone a significant number of alterations and modifications since its construction in 1928. A landscaped courtyard, porch, and a series of French doors have been added to the south side of the building. The façade's front entrance has been replaced by a window. Sometime in the last 15 years the rear of the building was gutted. This resulted in the removal of wall cladding and many of the building's windows. Because of these alterations the building has a low level of integrity and is in poor physical condition. Therefore, the building does not retain sufficient design integrity or physical integrity to represent its architectural type and period of significance.

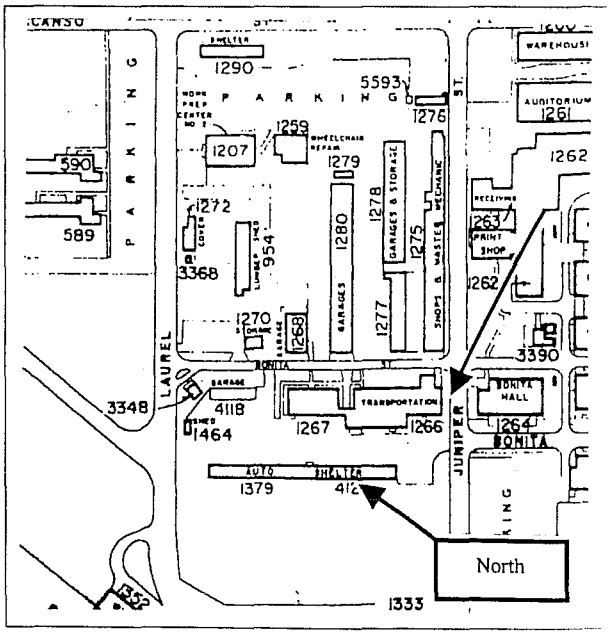
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

In the 1980s the building was renovated and a landscaped courtyard was added to the south side of the building. The renovation also removed the façade's front entrance and added a porch and a series of French doors to the south elevation. Sometime in the last 15 years the rear of the building was gutted. This resulted in the removal of wall cladding and many of the building's windows.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #1267*

P1. Other Identifier: *Occupational Therapy Building Addition*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Occupational Therapy Building Addition (Building #1267) is a vernacular style building that was once attached to the rear of the main Occupational Therapy Building by a one-story hyphen. Today it is a freestanding building. It is a one-story, wood frame building capped by a hipped roof covered in composition shingles. Each of the four elevations has an asymmetrical arrangement of multi-light sash windows and flush panel doors. All doors are accessed via concrete ramps. A shed roof porch projects from the we elevation.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1930 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1267*

B1. Historic Name:

B2. Common Name: *Occupational Therapy Building Addition*

B3. Original Use: *Print, paint & shoe shops* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1267 was built in 1930 to house the print shop, paint shop and shoe making departments. These departments were largely staffed by patients, and were part of the Rancho's occupational therapy program *(Continued pg. 3)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an ontegral component of the Los Angeles County Farm and still later, Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Occupational Therapy Building represents a fairly common example of early twentieth century institutional buildings that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

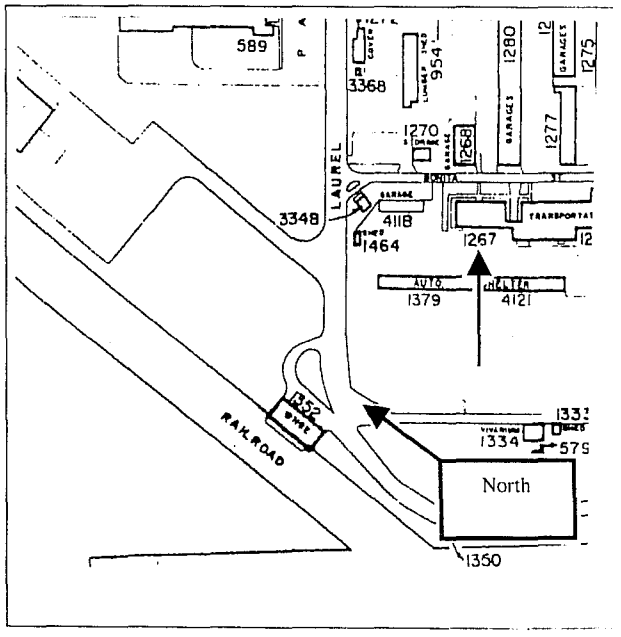
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

After the occupational therapy programs were phased out in the mid-to-late 1950s the building was used for a variety of purposes. It last housed the transportation department.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #1268*

P1. Other Identifier: *Storage Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

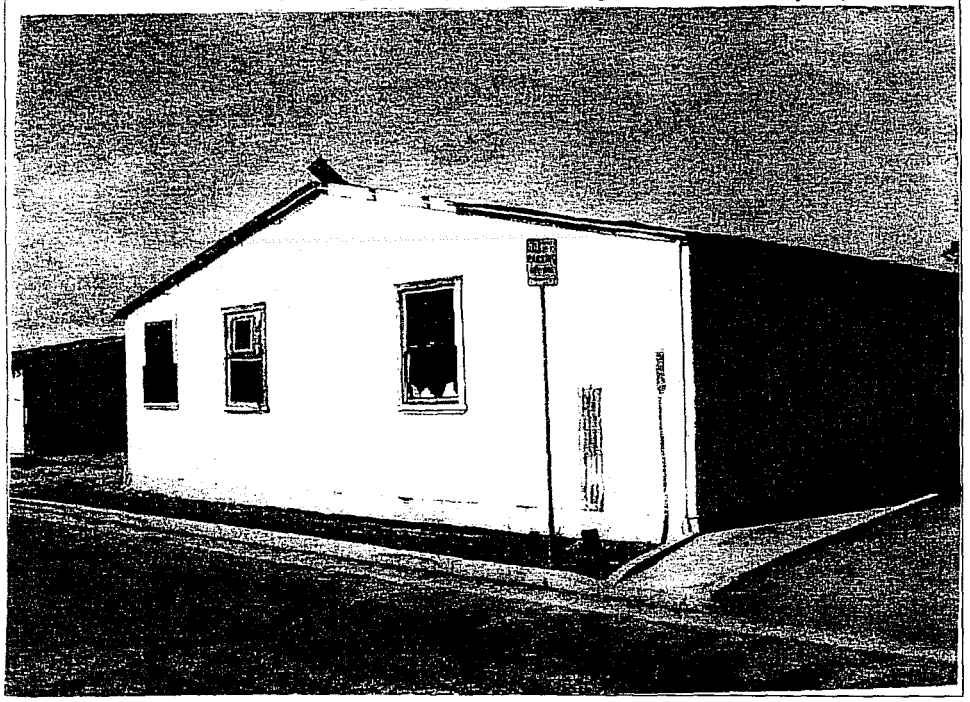
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Storage Building (Building #1268), built in circa 1931, is one-story wood frame building capped by a front gable roof that is located west of Building 1280. Both its walls and roof are clad in corrugated metal siding. A series of double doors clad in corruga metal line its east elevation. These doors provided access to the buildings interior.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1931 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1268*

B1. Historic Name:

B2. Common Name: *Storage Building*

B3. Original Use: *Automotive garage* B4. Present Use: *Vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Documentation indicates that the building was constructed sometime before 1931, as it is depicted on the Sanborn Fire Insurance Map of that year. Since its construction it has been used as a storage building. I

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings it formed an integral component to the Los Angeles County Farm and still later, the Rancho Los Amigos Hopital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Storage Building represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the storage building As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

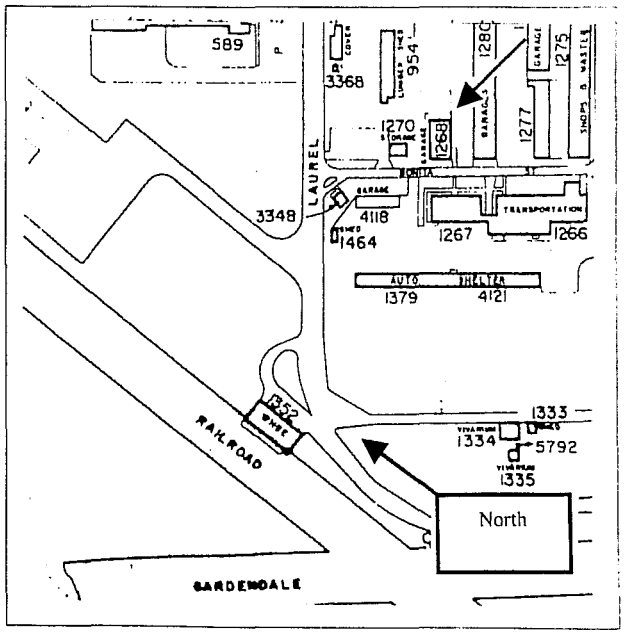
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1270*

P1. Other Identifier: *Garage Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.**

c. Address: *7601 East Imperial Blvd* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Storage Building (Building #1270), built in 1932, is a rectangular wood frame garage capped by a shed roof that is located near the intersection of Bonita and Laurel Streets. The sides and roof of the building are clad in corrugated metal siding. The north elevation is divided into two open bays. At the east end of the elevation a window provides light to the interior.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1932 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1270*

B1. Historic Name:

B2. Common Name: *Garage Building*

B3. Original Use: *automotive garage* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1270 was constructed in 1932. It is depicted on site map, published in 1933. In later years it was used as storage building. It appears to have undergone few alterations since its construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Garage Building represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

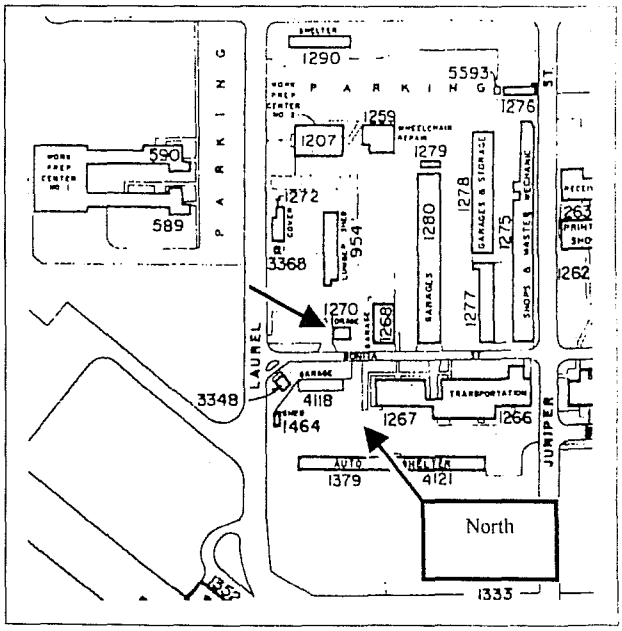
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 4 **Resource Name or #:** (Assigned by recorder) *LACO #1275*

P1. Other Identifier: *Workshop*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

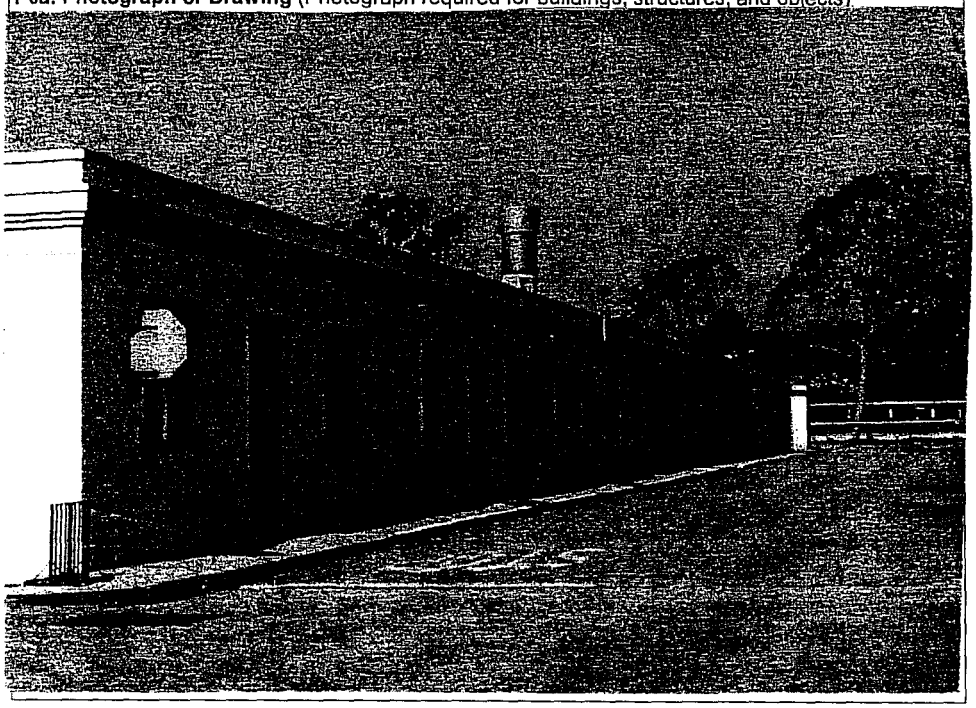
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Workshop Building i(Building #1275) is a long narrow building that is approximately 160 feet in length. The brick building, portions of which were built between 1917 and circa 1945, is capped brick parapet that hides the flat roof from view. A decorative cornice delineates the base of the parapet from the wall plate. The east elevation is linear in configuration. Its façade is compriseo a series of rectangular windows that alternate with doors that open into the individual shop spaces. This elevation is the short side the building. Its fenestration is comprised of two multi-light wood frame windows. At the west end of the elevation a wood frame addition capped by a front gable roof links Building #1276 with the nearby garage building (Building #1277). The additions central sliding wood plank and multi-light doors are flanked by sets of multi-light wood frame windows. The west elevation forms the east a west sides of u-shaped courtyard (the west side of the courtyard is formed by the east elevation of Building #1277). This elevation comprised of a series of rectangular windows that alternate with doors that open into the individual shop spaces *(Continued pg. 2)*

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1917; mid-1920s; circa 1930; circa 1945 (historic documentation)

P7. Owner and Address
County of Los Angeles Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

P3. Description

The south end of the elevation is comprised of the gable end of the wood frame wing that links Building #1275 with Building #1277. The fenestration of this wing consists of a pair of sliding wood plank and multi-light doors that are flanked by sets of multi-light wood frame windows. The north elevation is linear in configuration. The elevation's entrance is sheltered by a projecting shed roof.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1275*

B1. Historic Name:

B2. Common Name: *Workshop*

B3. Original Use: *maintenance workshop* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

According to available documentation the south end of the building was constructed in 1917 to house the Maintenance Departmer workshops. Later, in the mid-1920s, an addition was made to the north end of the building (Continued pg. 4).

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Workshop Building represents a fairly common example of a early-twentieth century, vernacular sty institutional building that eschewed explicit references to a particular architectural style. As an individual structure the buildir does not have the type of historic associations or architectural significance that would make it eligible for nomination to th National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

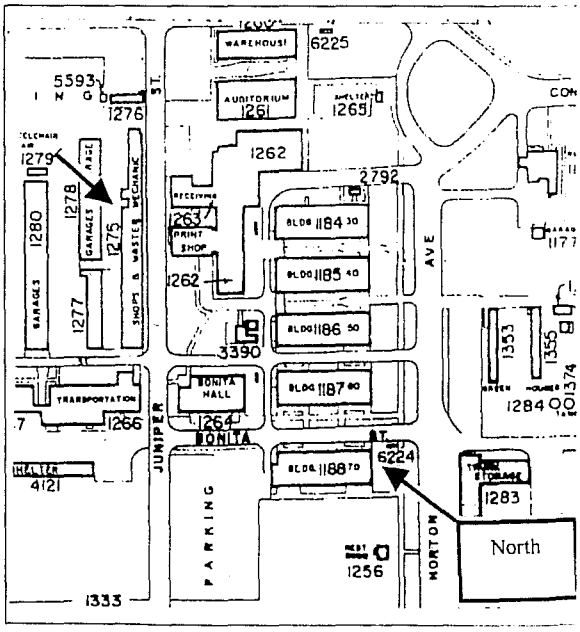
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

By circa 1930 the building housed the carpentry and paint shops at its south end and a series of seven storerooms at the north end of the building. Sometime after circa 1945 a wood frame wing linking the workshops to Building #1277 was added. Like several other post World War II buildings it may have been built of materials salvaged from demolished buildings.

State of California— The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ Reviewer _____ Date _____

Page 1 of 3 **Resource Name or #:** (Assigned by recorder) *LACO #1276*

P1. Other Identifier: *Lock Shop*

P2. Location: ☐ Not for Publication ☒ Unrestricted a. County *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad Date T ; R ; 1/4 of 1/4 of Sec ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

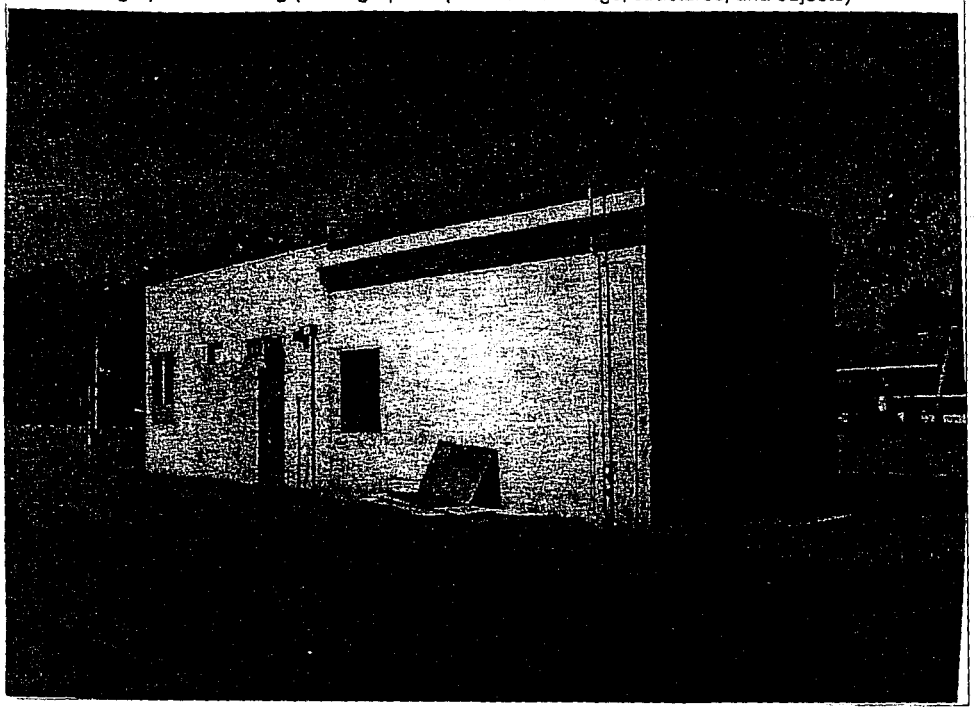
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Lock Shop (Building #1276), built in 1913, is located just north of Building #1275. It is a one-story brick building with a flat roo With its brick parapet and cornice the building is similar to other vernacular style brick buildings erected at Rancho Los Amigos between 1910 and 1925. The façade of the building faces toward Juniper Street. The façade's central doorway is flanked on eith side by metal frame windows. A rectangular addition was added to the rear of the building sometime in the mid- to-late 1920s. Th addition lacks the ornamental cornice found on the building's original wing.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1913 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1276*

B1. Historic Name: *Morgue*
B2. Common Name: *Lock Shop*
B3. Original Use: *unknown* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1276 was built in 1913. Its original use is unknown. In 1925 it was converted to a morgue. By 1933 it had been enlarged and was serving as the gas and oil building for the Rancho's fire department *(Continued pg. 3).*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Lock Shop represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

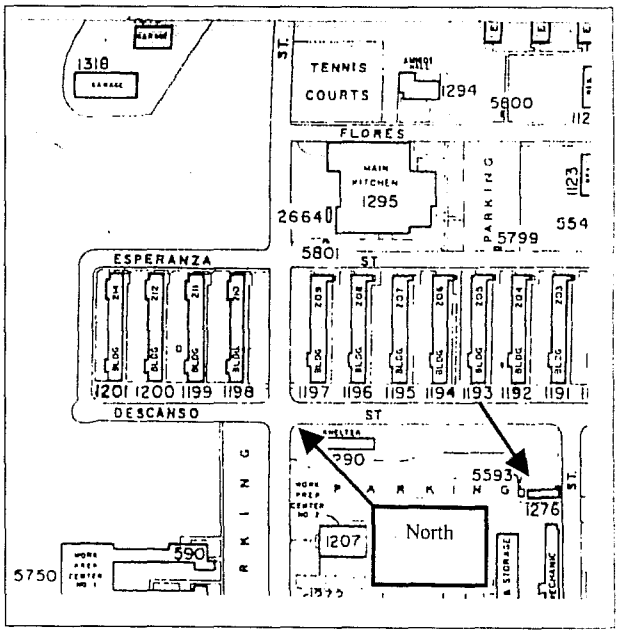
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

It later served as a lock shop. The building is in fair condition. However, alterations to the building, such the replacement of original door and windows, the painting of the exterior and the construction of an addition off of the building's west elevation, have diminished the buildings architectural integrity. Therefore, the building only retains a fair level of architectural integrity.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z
Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1277*

P1. Other Identifier: *Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

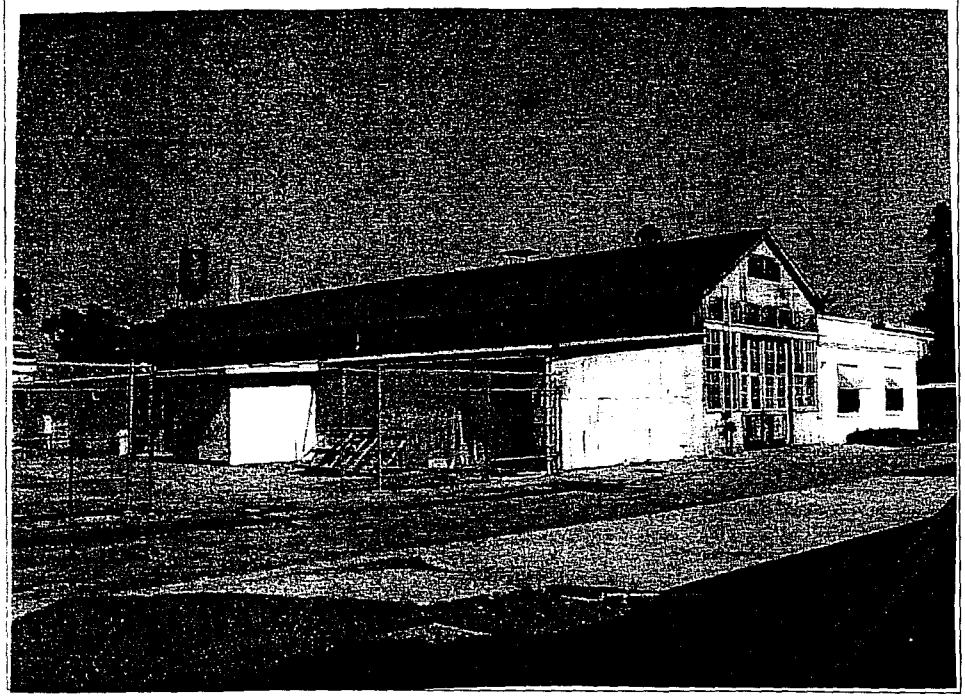
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The garage (Building #1277), built in 1925, is located just west of Building #1275. It is joined to Building #1275 by wood frame wing capped by a gable roof. The wood frame building's shed roof and walls are clad in corrugated metal (Figure 148). The building does not have windows, however, a number of doors, which are also clad in corrugated metal, provide access to the interior.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1925 (historic documentation)

P7. Owner and Address
County of Los Angeles Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☐ Location Map ☐ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1277*

B1. Historic Name: *Lumber Storage Building*
B2. Common Name: *Garage*
B3. Original Use: *storing construction material* B4. Present Use: *vacant*
B5. Architectural Style: *Vernacular style*
B6. Construction History: (Construction date, alterations, and date of alterations)
According to available documentation the building was constructed in 1925 as a lumber store. Originally its east elevation comprised a number of open bays. In the post World War II period, these bays were altered *(Continued pg. 3)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

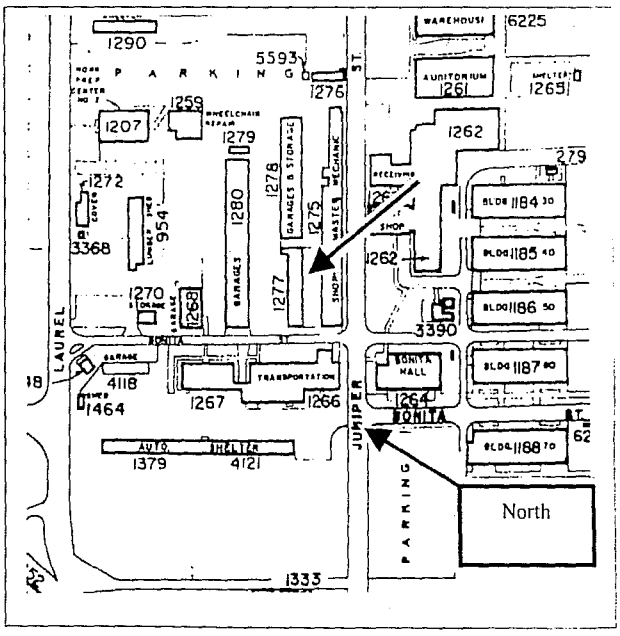
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

when a wing was built that linked Building #1277 to the nearby Maintenance Department Building. For at least the last ten years the building has been empty.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #1278*

P1. Other Identifier: *Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

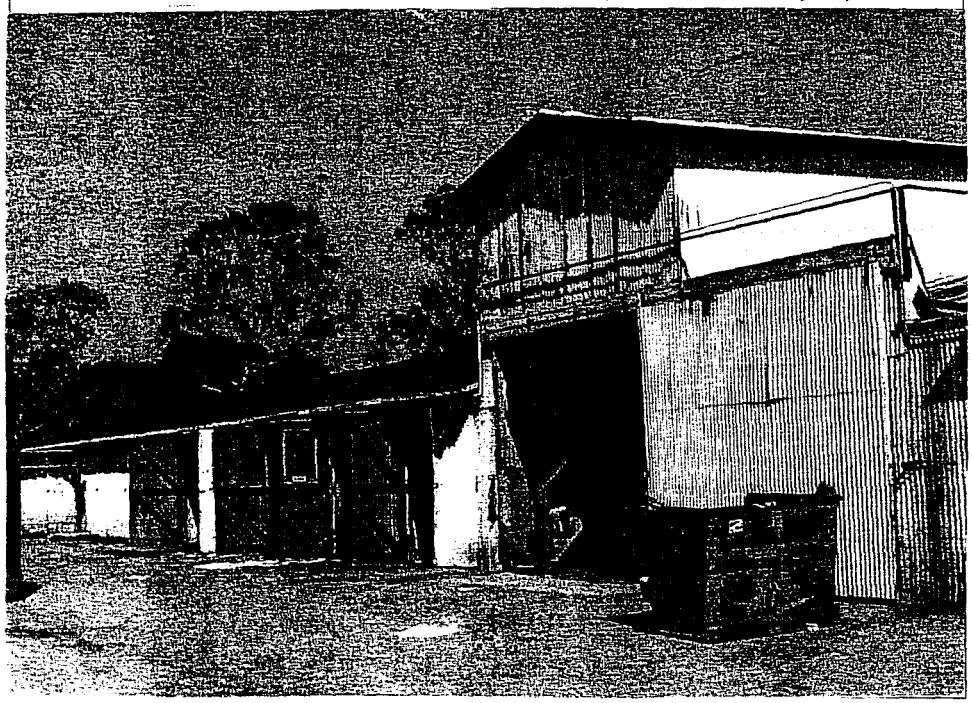
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The garage (Building #1278), built in 1924, is a one-story wood frame building clad in corrugated metal and capped by a complex front gable roof. A series of double doors clad in corrugated metal line its east and west elevations. These doors provided access to a number of bays that were used to store automobiles and trucks.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1924 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1278*

B1. Historic Name:

B2. Common Name: *Garage*

B3. Original Use: *automotive garage* B4. Present Use: *storage*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

According to available documentation the building was constructed in 1924 as an automobile garage. Since that time it has also been used as a storage building. It appears to have undergone few alterations since its construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

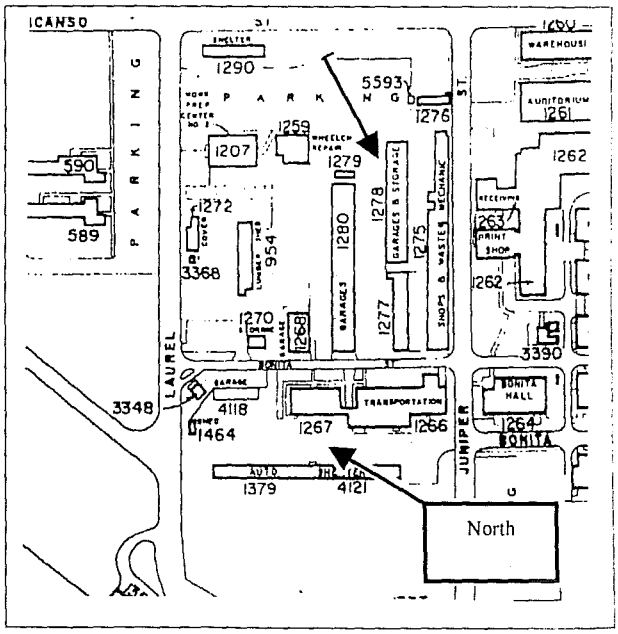
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #1279*

P1. Other Identifier: *Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

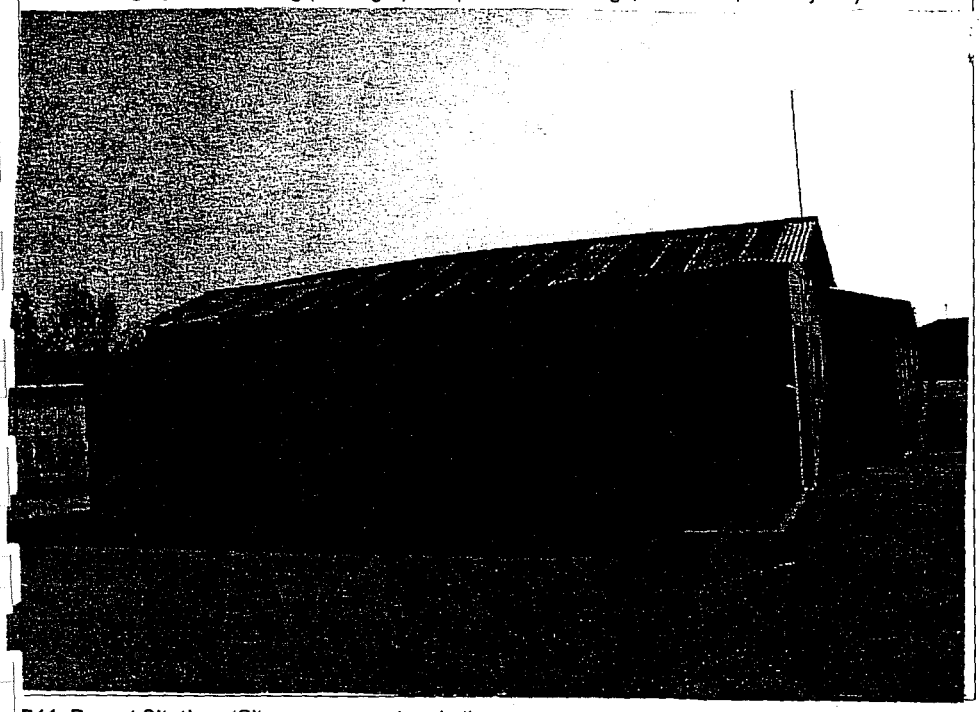
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located adjacent to the north elevation of Building #1280 the building is a small wood frame garage (Building #1279) whose walls and roof are clad in corrugated metal. The building's bay doors are located on the south elevation .

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1925-1931 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1279*

B1. Historic Name:

B2. Common Name: *Garage*

B3. Original Use: *Automotive garage* B4. Present Use: *Vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1279 was constructed sometime between 1925 and 1931 to serve as a garage. The building is in fair condition.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

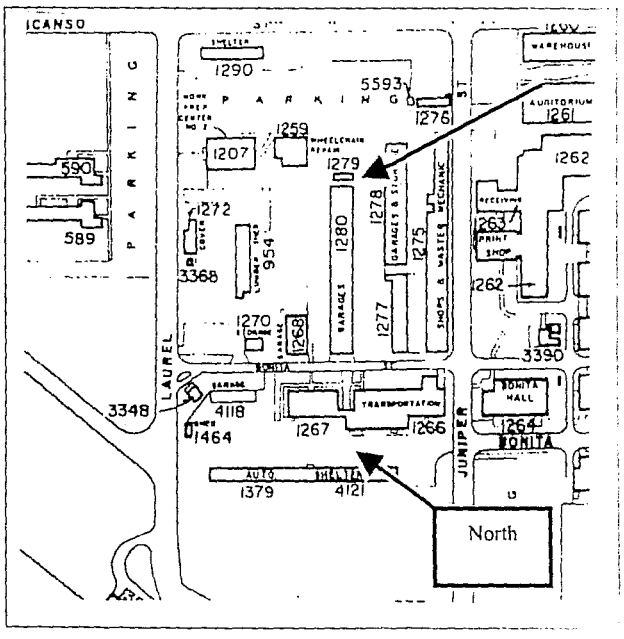
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code ____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #1280*

P1. Other Identifier: *Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **I**

c. Address: City *Downey* Zip

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

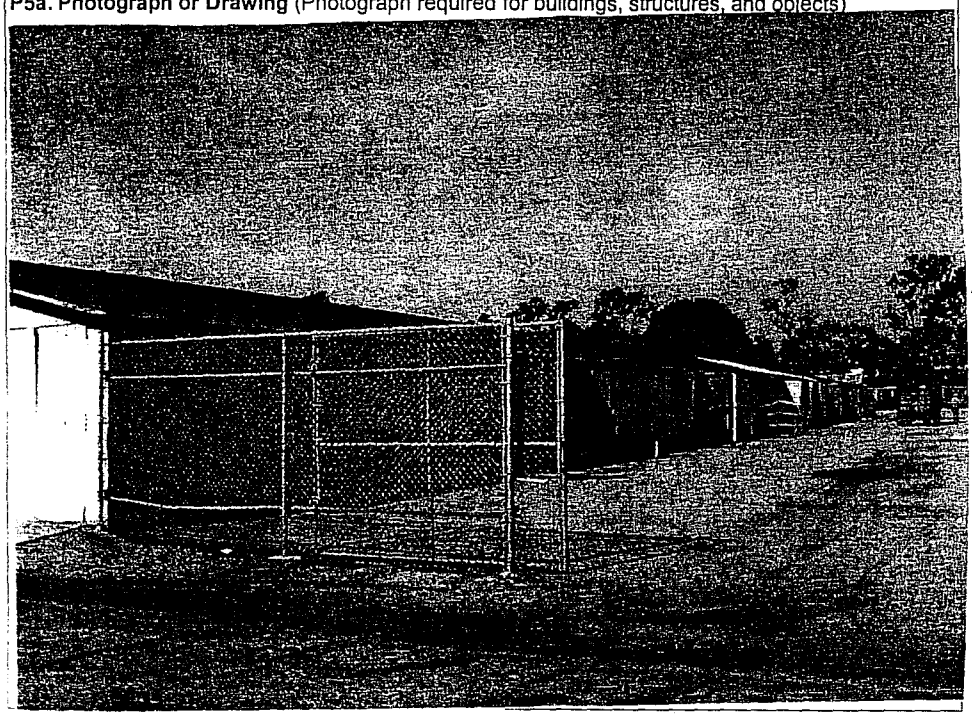
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The garage (Building #1280), built in 1928, is one-story wood frame building capped by a shed roof that is located west of Buildings #1277 and #1278. Both its walls and roof are clad in corrugated metal siding. A series of double doors clad in corrugated metal line its east and west elevations. These doors provided access to a number of bays that were used to store automobiles and trucks.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital* *HP2 - Single Family Property*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1928 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1280*

B1. Historic Name:

B2. Common Name: *Garage*

B3. Original Use: *auotomotive garage* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

According to available documentation the building was constructed in 1928 as an automobile garage. Since that time it also has been used as a storage building. It appears to have undergone few alterations since its construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

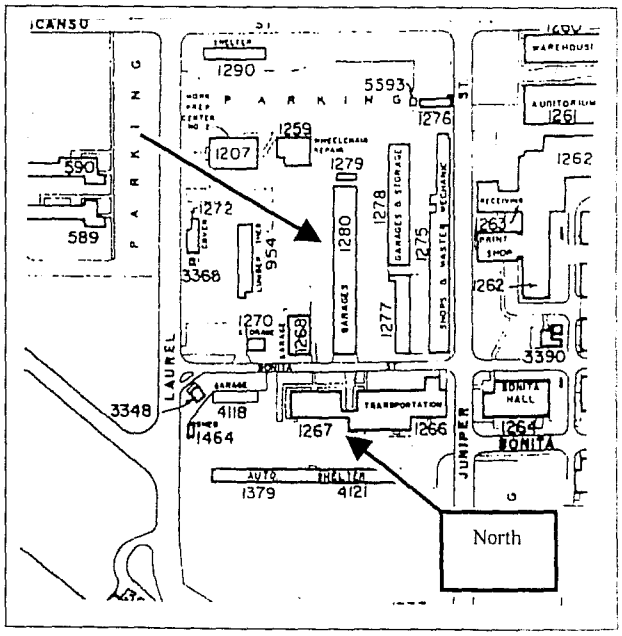
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #1283*

P1. Other Identifier: *Stable*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ m

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

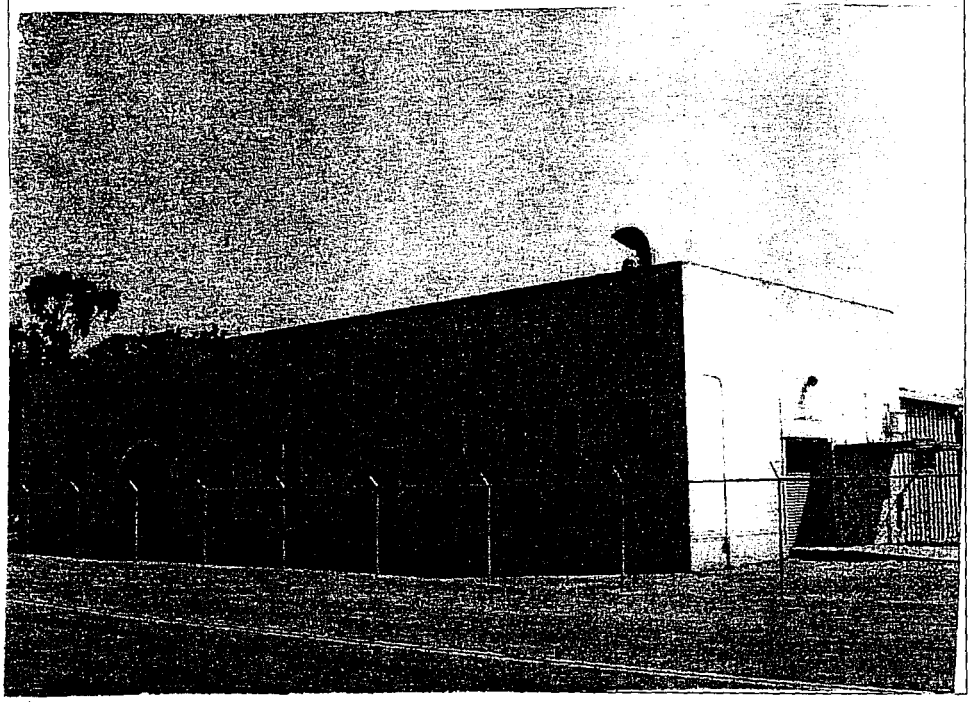
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The former stable is an L-shaped, one-story brick building built in 1913. The building, located at the corner of Erickson Avenue Bonita Street, is capped by a flat roof that is hidden by a solid parapet. Fenestration is primarily comprised of double hung sas windows. The west elevation is linear in configuration, its most notable feature, is an arched entrance near the north end. Pair arcuated windows flank the arched entrance on either side. Near the elevation's center point a rectangular window has been s a sealed doorway. The doorway is flanked on its south side by for small arcuated windows. The north elevation is linear in configuration. Its fenestration is comprised of a linear arrangement of wood sash windows of varying size. The rear elevation i L-shaped in configuration. An arched opening is set at the center of the elevation's projecting wing. A pre-fabricated addition, capped by a shed roof, runs the length of the recessed wing. The south elevation is L-shaped in configuration. A metal canop shelters the doorway in the elevation's projecting wing. A pre-fabricated addition, capped by a shed roof, runs the length of the elevation's projecting wing. The same addition encapsulates the west end of the recessed wing. A metal canopy, supported by poles, shelters the remainder of the wing.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, e

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accessio

P6. Date Constructed/Age and Source
☐ Prehistoric ☒ Historic ☐ Both

1913 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall o Administration, 500 Temple Street, Los Ange California 90012

P8. Recorded by: (Name, affiliation, and addre
Post/Hazeltine Associates, 2607 Orella Street Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitatio

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1283*

B1. Historic Name: *Stable*
B2. Common Name: *Trunk Building*
B3. Original Use: *stable* B4. Present Use: *storage*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built as a stable in 1913 less than a decade later its second floor was converted to a patient ward. After the 1933 earthquake it was used for storing patient luggage. Prefabricated additions have been added within the last 25 years.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a complex of buildings that formed an integral component of Los Angeles County Poor Farm and still later the County Farm and Rancho Los Amigos Hospital.*

B9a. Architect: *George Low* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

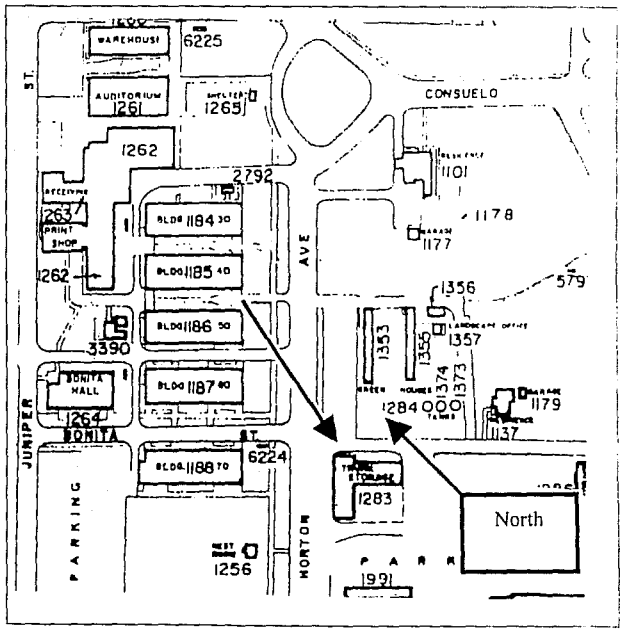
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Post-construction modifications to the stable's exterior include the removal of the building's second floor shortly after it was damaged by the 1933 Long Beach earthquake. More recently, prefabricated additions have been added to the rear elevation. The building's physical condition is good. However the loss of the original second floor and the non-contextual additions to the rear elevation, have significantly diminished the ability of the building to represent its architectural type and period of historic significance. Therefore, the building does not retain sufficient design and physical integrity to communicate its period of significance.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California



313. Remarks:

314. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1284, #1373, #1374*

P1. Other Identifier: *Metal Tanks*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

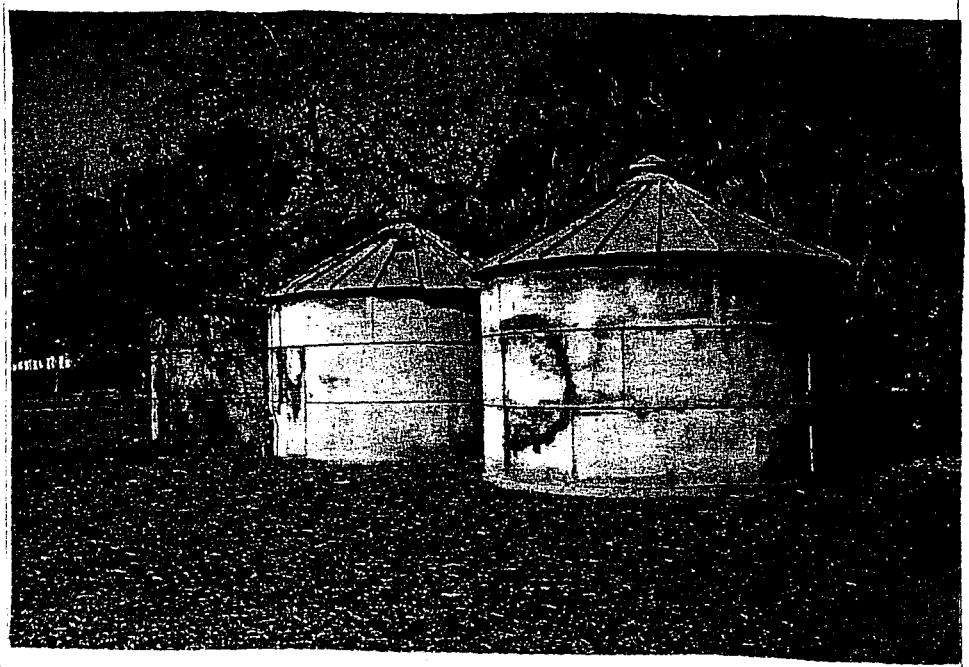
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Three, circa 1935, circular metal tanks, capped by cone-shaped roofs, are located southeast of the Landscape Office. The tanks are made of rectangular sheets of metal that have been riveted together. The tanks' slightly overhanging roofs are constructed of triangular sections of metal sheeting.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Crica 1935 (Historic photographs)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1284, #1373, #1374*

B1. Historic Name:

B2. Common Name: *Metal tanks*

B3. Original Use: *storage tanks* B4. Present Use: *unused*

B5. Architectural Style: *utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built in circa 1933 the three metal tanks have remained unaltered from their date of construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a complex of buildings and features that formed an integral component of the Los Angeles County Farm and still later the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *Circa* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The three tanks are a fairly standard type of industrial design, dating from between the mid-1930s to the late 1940s. As individual structures they do not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

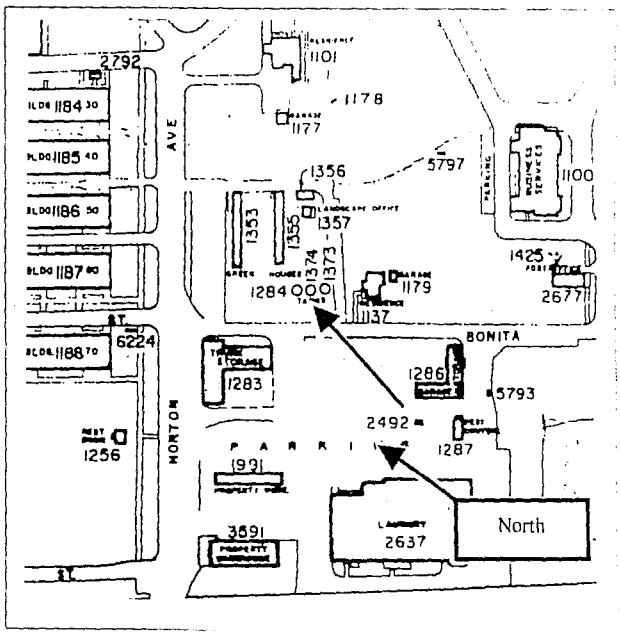
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amgios Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Resource Name or #: (Assigned by recorder) *LACO #1286*

P1. Other Identifier: *Garage and Storage Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located south of the former stable building, this vernacular style, one-story, L-shaped wood frame building, built in 1920, is cappe an intersecting gable roof covered with rolled asphalt. It is clad in a combination of corrugated metal siding, board and batten an wood planks. The north elevation is L-shaped in configuration. The north elevation of its projecting wing is clad in corrugated me The elevation's recessed wing is clad in a combination of corrugated metal, board-and-batten and horizontal wood siding. The ea elevation is linear in configuration. The south end of the elevation is capped by a front gable roof, and is clad in board-and-batten siding. Its fenestration is comprised of two wood sash windows. The next segment of the elevation is clad in horizontal wood sidi Its fenestration consists of two small rectangular windows flanked on the north by a pair of sliding wood plank doors. The remain of the façade is clad in corrugated metal siding with a pair of wood frame doors covered in corrugated metal at is north end. The south elevation is linear in configuration. The east end of this elevation is clad in board-and-batten siding. The fenestration of thi part of the elevation is comprised of a single wood sash window that is flanked on its east side by a set of double doors. The remainder of the elevation *(Continued pg. 2)*

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☐ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☐ Historic ☐ Both

P7. Owner and Address

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☐ Location Map ☐ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OB. EC

Page 3 of 3

Resour N

B1. Historic Name:

B2. Common Name: *Garage and Storage Bui*

B3. Original Use: *Garage and Storage bui*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, a

The building appears to have been built in t ee horizontal siding a few years later and a thir se

B7. Moved? ☒ No ☐ Yes ☐ Unknown D te

B8. Related Features: *Once part of a com lex later the Rancho L*

B9a. Architect: *unknown*

B10. Significance: Theme: *Public Healtl*

Period of Significance: *1887-1950*

(Discuss importance in terms of historical or ar ite

The Garage and Storage Building represe s does not have the type of historic associati Register of Historic Places on an individua nomination as a contributing element to a h to

B11. Additional Resource Attributes: (List attribu

B12. References:

Post/Hazeltine Associates, 2003: Intensive lis Survey of the South Campus of Rancho L A Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

CONTINUATION SHEET

Page 2 **of** 3 **Resource Name or #:** (Assigned by recorder) L

Recorded by: Pamela Post

P3. Description

is covered in corrugated metal siding. The west elevation is L-shaped in configur doors clad in corrugated metal sheeting. The south end of the recessed wing is c two small rectangular windows that are flanked on the north by a pair of wood pl corrugated metal siding with a pair of wood frame doors covered in corrugated m

P3. Description

The west elevation is linear in configuration. Its first floor fenestration is comprised of three wood sash windows. The second floor fenestration is comprised of a similar arrangement of smaller wood sash windows.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1287*

B1. Historic Name:

B2. Common Name: *Oil & Storage Building*

B3. Original Use:

B4. Present Use: *storage*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built in 1909 the two-story wood clad building has undergone several modifications since it was constructed, including the additio of a concrete stoop and a second floor freight door.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of farm buildings that formed an integral component of the Los Angeles County Poor Farm, and still later the County Farm and Rancho Los Amigos Hospital.*

B9a. Architect: *unknown*

b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health*

Area:

Period of Significance: *1887-1950*

Property Type:

Applicable Criteria:

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Oil and Storage Building represents a fairly common example of an early twentieth century industrial/farm building. As a individual structure the building does not have the type of historic associations or architectural significance that would make eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

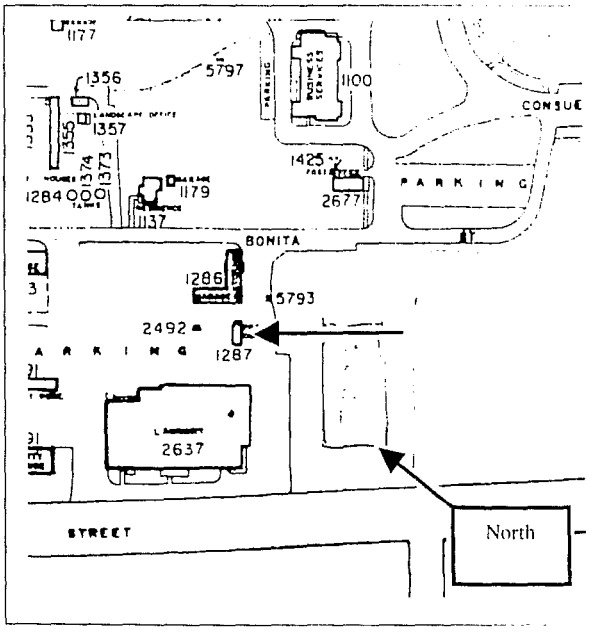
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitaion Center, Los Angeles, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Resource Name or #: (Assigned by recorder) *LACO #1290*

P1. Other Identifier: *Shelter*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

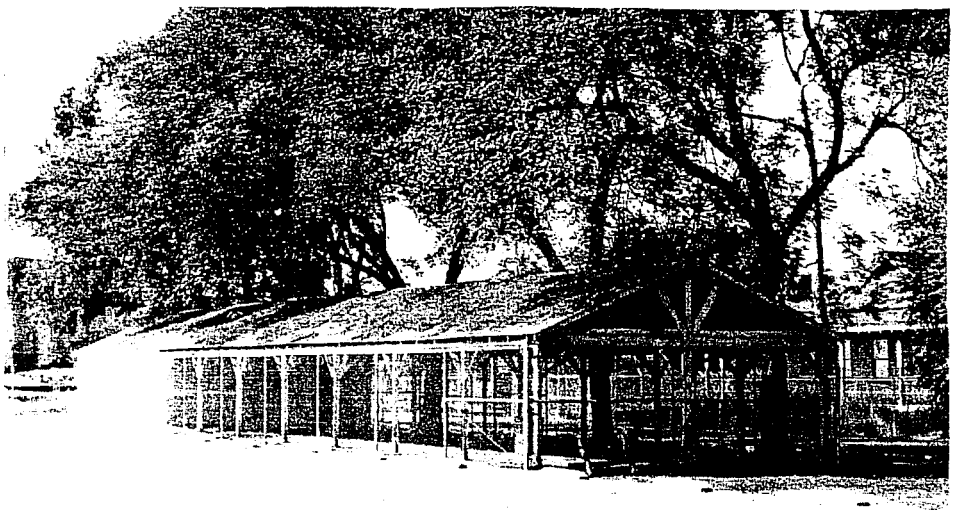
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Shelter Building (Building #1290), built between 1920 and 1930, is located near the intersection of Descanso and Laurel Streets. The vernacular style wood frame shelter is capped by a gable roof. The roof is supported by wood posts with triangular braces. The long rectangular building is open on all sides with the exception of the far west end of building, which is enclosed.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1920-1930 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Location Map ☐ Sketch Map ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other: (List)

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1290*

B1. Historic Name:

B2. Common Name: *Shelter*

B3. Original Use: *shelter*

B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1290 was built sometime between 1920 and 1930 (it is depicted on the 1931 Sanborn Fire Insurance Map). It may have been substantially rebuilt in 1952.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The shelter is a fairly common example of an early twentieth century vernacular style building that eschewed explicit references a particular architectural style. As an individual structure the shelter does not have the type of historic associations or architectur significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In additio it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

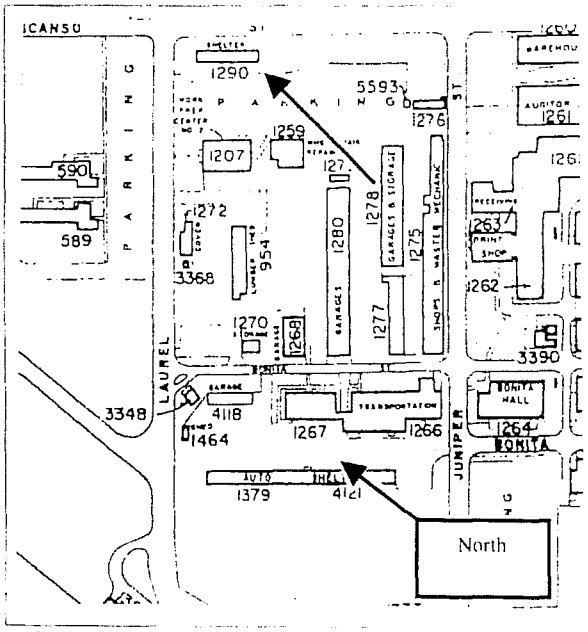
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1295*

P1. Other Identifier: *Kitchen & Employee Dinning Room*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This one-story, flat-roofed, concrete building is an example of Stripped Classicism, a style that enjoyed widespread popularity for public works projects from the late 1920s through the 1930s. The building's footprint consists of an irregular rectangle with projecting elements on the east and west elevations. At the top of the wall plate a projecting cornice delineates the base of the solid parapet that hides the flat roof from view. The building's fenestration is comprised of a linear arrangement of multi-light casement windows. The east elevation functions as the building's primary façade . It has two entrances placed on the north and south sides of a projecting wing. The doors are double-leaf, with single lights and transoms. A six-step concrete stoop leads to the left door and a wheelchair ramp allows universal access to the right door. Both entries have metal pipe handrails. At the left end of the building is a concrete loading dock with a metal roll-up freight door. The north elevation is comprised of a projecting wing flanked on its east side by a slightly recessed wing. A loading dock is inset into this elevation. Metal stairs lead to the roof

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☐ Historic ☐ Both
1926 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1295*

B1. Historic Name: *Kitchen & Employee Dining Room*

B2. Common Name:

B3. Original Use: *Kitchen & Employee Dining Room* B4. Present Use:

B5. Architectural Style: *Stripped Classicism*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built in 1926, the one-story building was used as a employee kitchen and dining room. Today, it continues to function in the same capacity.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Poor Farm Ilater the County Farm and still later the Rancho Los Amigos Hospital)*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The kitchen building does not embody the level of architectural or historical significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

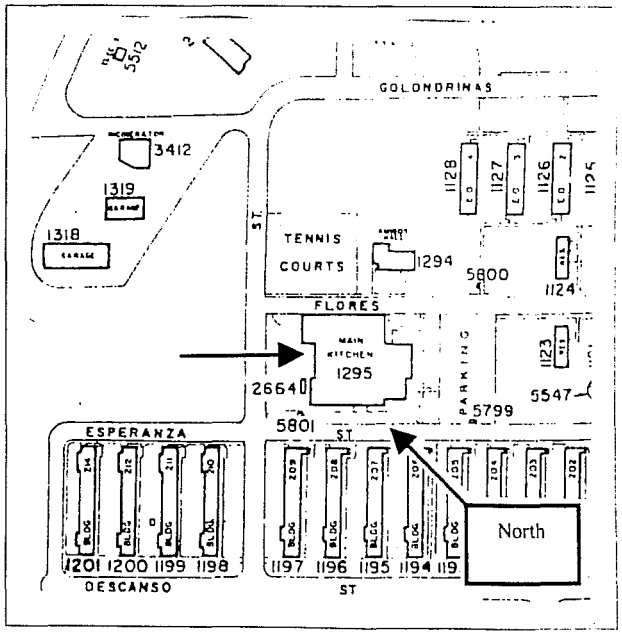
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles, County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 3

Other Listings
Review Code _____ **Reviewer** _____ **Date**

Page 1 of 3 **Resource Name or #:** (Assigned by recorder) *LACO #1300, 1301,1302*

P1. Other Identifier: *Old Power Plant, Water Tower, Machine Shop, Laundry and Ice Plant*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip

d. UTM: (Give more than one for large and/linear resources) ; **mE/** *90242* **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

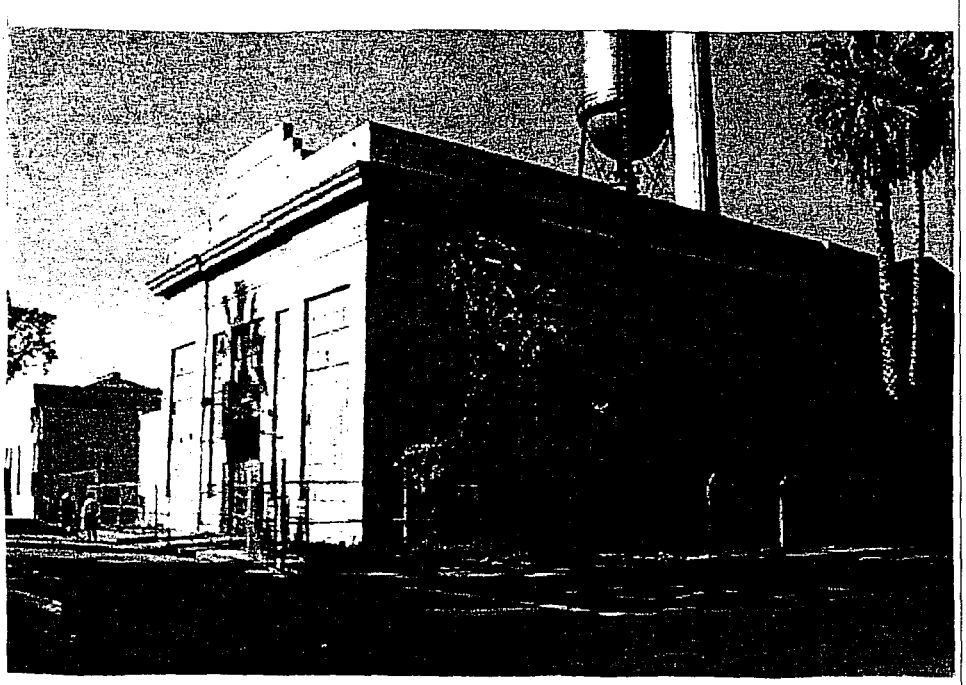
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located at the northwest corner of the intersection of Erickson and Descanso Streets, the Power Plant building is comprised of th one-to-three story brick and concrete wings flanked by a freestanding water tower and concrete chimney. The Power Plant (Build #1300) was built over three separate building campaigns. In 1909 a one-story brick building was constructed to house the facility steam powered power plant. In 1926 a more monumental wing, with classically inspired embellishments was built along Erickson Avenue. Later, the building underwent further expansion when a one-story wing (Building #1302) was built off the southwest corn of the 1909 wing. Designed with a minimum of ornamental embellishments, the building is an example of the type of utilitarian des common to many early twentieth century institutional buildings. The building has poured-in-place concrete walls that support a ste truss roof. Facing toward Erickson Avenue the building's street façade (east elevation) is linear in configuration. The Classical st tripartite façade is comprised of a centrally placed temple façade flanked on either side by flat-roofed wings. The temple façade is comprised of four Tuscan style pilasters that support a projecting cornice that delineates the base of a solid parapet that hides the building's flat roof *(continued pg. 2)*

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☐ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #

P6. Date Constructed/Age and Sources
☐ Prehistoric ☒ Historic ☐ Both

1909-1936 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angele California 90012

P8. Recorded by: (Name, affiliation, and addres
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

P3. Description

The cornice supports a triangular pediment. A centrally placed doorway is flanked on either side by multi-light metal frame windows. The flanking wings are linear in configuration, and are capped by a continuous cornice that runs the length of the elevation. Their fenestration consists of a series of symmetrically arranged, multi-light metal windows that provide light to the building's two-story tall power room. The power room was built to house four steam driven turbines that provided power and heat to the Rancho campus. The south elevation consists of three wings built over a period of 19 years. A projecting wing of Building #1300 forms the east end of the elevation. The wing's centrally placed doorway is flanked on either side by oversized rectangular windows that rise to a height of two stories. A massive cornice, capped by a stepped parapet, caps this end of the power plant. A recessed, one story brick wing flanks the power plant. Capped by a wood truss roof, this wing of the brick building was constructed in 1909 to house the Rancho's first power plant. It later housed the facilities ice house and machine shop. The icehouse's large wood cooling tower, added sometime between 1933 and 1936 is located at the southwest corner of the roof. The wing's fenestration is comprised of a series of large metal frame windows. The west end of the recessed wing is flanked by a projecting one-story brick wing. Built in 1911 this one-story brick wing was built to house Rancho laundry. The west elevation is L-shaped in configuration. The fenestration of the projecting wing at the south end of the elevation is comprised of an asymmetrical arrangement of arched and square windows. The recessed section of the building is comprised of the rear elevation of Building #1300. ilts most notable feature is a freestanding, circular chimney that rises to a height of 125 feet. Built in 1927, the tower's fluting references the classical design of the 1926 Power Plant. the chimney is flanked by a 125-foot tall ater tower that supports a 100,00 gallon water tank. The north elevation, which faces toward Esperanza Street, is L-shaped in configuration. At the east end of the elevation the 1926 power plant forms a projecting wing that is flanked on its west side by the one-story wing built in 1909. At the far west end of the elevation is the slightly recessed 1909 wing that once housed the Rancho's laundry facility. The fenestration of the 1909 and 1926 wings are comprised of an asymmetrical arrangement of arched windows. The north elevation of the 1926 Power Plant is comprised of a symmetrical arrangement of oversized metal frame windows that flank a central entrance.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #

HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

NRHP Status Code 3

Resource Name or #: (Assigned by recorder) *LACO #1300, 1301,1302*

B1. Historic Name: *Old Power Plant, Water Tower, Machine Shop, Laundry and Ice Plant*

B2. Common Name: *LACO #1300, 1301 and 1302*

B3. Original Use: *Power plant and auxillary features* B4. Present Use:

B5. Architectural Style: *Combination of Stripped Classicism and vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

The Power Plant was built in three separate building campaigns between 1909 and 1926. Built to provide power for the Rancho campus, it was closed when a new plant was built in 1966. Later used as a machine shop, it is now vacant.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Poor Farm, later the County Farm and still later, Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Power House complex, with its chimney and water tower, represents an important example of early twentieth century industrial design. The complex's water tower and chimney have been visually prominent features of the viewscape of Downey since 1913 (water tower) and 1926 (chimney). The 1926 wing of the building, with its classical style façade and large over-scaled windows, represents a regionally important example of the application of classical imagery to an industrial building. This was a not uncommon phenomenon during the early twentieth century, a period when Classical Revival style architecture enjoyed widespread popularity for public works projects. Examples of this style in Los Angeles County can be seen in such buildings and engineering works as the Department of Water and Power Distributing Station #2 (1916), the Hall of Justice (1925), the Fourth and Lorena Streets Bridge (Boyle Heights 1928), and the Macy Street Viaduct (1926). The vernacular brick wings of the Power House building still contain many of the working features that communicate its original use as a power/ice plant, including the steel water tower, concrete chimney and wood evaporating tower. Because the building retains both its vernacular and high style architectural elements it is eligible for designation to the National Register under Criterion c. It also should be noted that the building has formed an integral and important element of the skyline of the nearby communities of Downey and Southgate for 77 years, and may derive historic significance from this fact.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

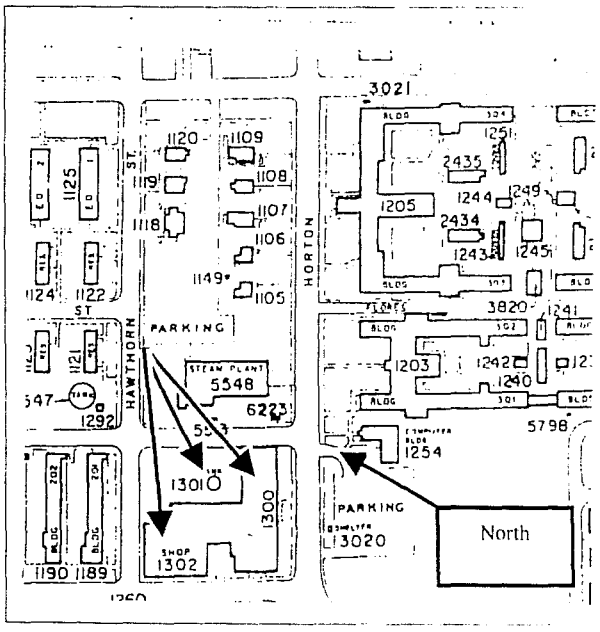
Post/Hazeltine Associates, 2003: Intensive Historics/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #1335*

P1. Other Identifier: *Brooder House*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

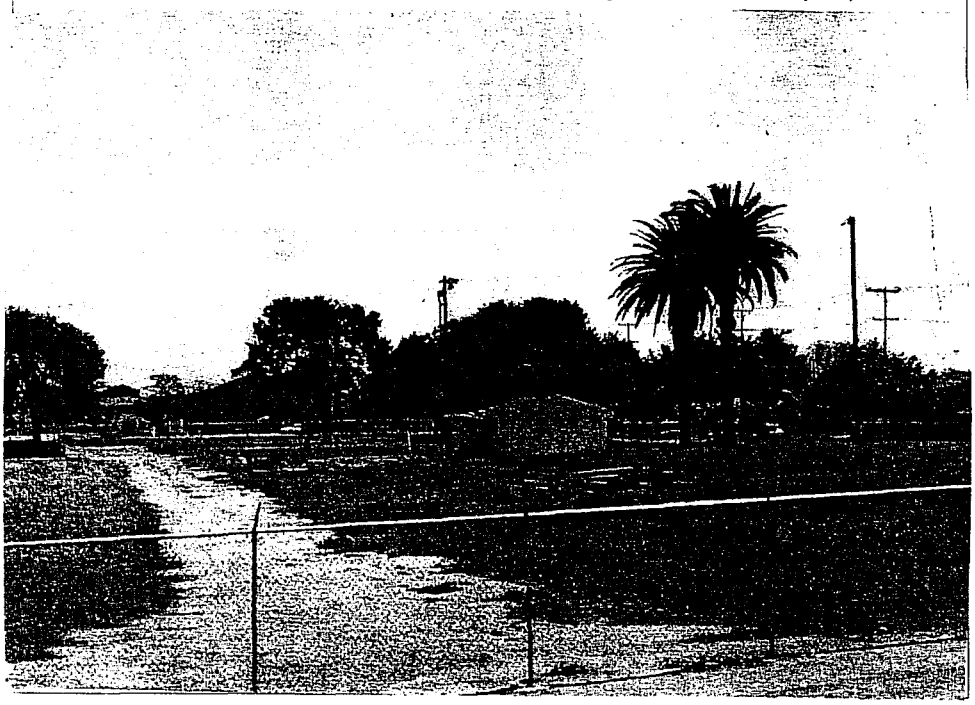
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located at the southern boundary of Rancho Los Amigos, the Brooder House, including its roof and walls, is built of concrete. The building, constructed in 1929, is capped by a peaked roof. A series of small openings pierce the building's north wall.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1929 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 9012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1335*

B1. Historic Name:

B2. Common Name: *Brooder House*

B3. Original Use: *chicken hatchery* B4. Present Use: *vacant*

B5. Architectural Style: *Utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

The Brooder House was built in 1929. It is the only surviving element of the Rancho Los Amigos once extensive poultry yards, which encompassed four rows of poultry coops, a feed barn and several ancillary buildings *(Continued pg. 3)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of farm buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Brooder House has been extensively damaged by arson and is missing several of its ancillary features, such as the feed barn. Therefore, the building does not retain sufficient physical integrity or design integrity to represent its original function, architectural type or period of historic significance.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

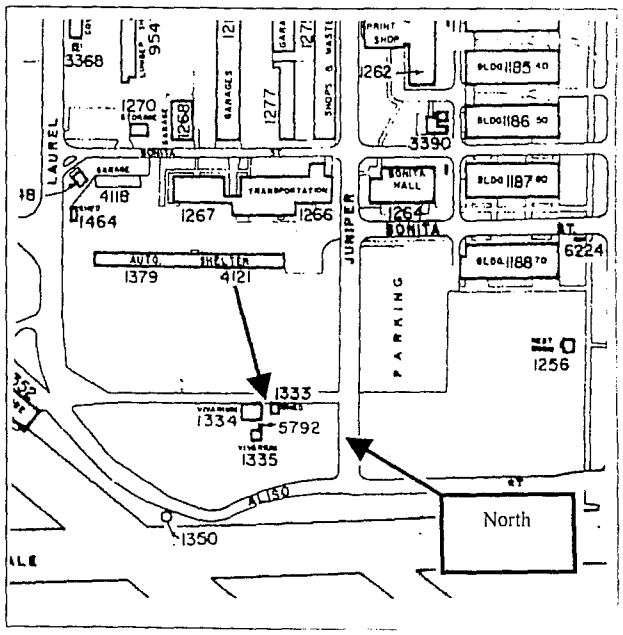
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

The poultry coops were demolished sometime after the mid-1930s. The Brooder House, feed barn and shed were all damaged or destroyed by arson within the last eight years. Severely damaged by fire, only the Brooder House has survived.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1353*

P1. Other Identifier: *Lath House*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The lath house is a long rectangular building located south of the Superintendent's House. Its wood frame is covered in lath. Built sometime between 1922 and 1925, the lath house was used to propagate landscape plants

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1922-1925 (Historic maps)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1353*

B1. Historic Name: *lath house*

B2. Common Name:

B3. Original Use: *lath house* B4. Present Use: *abandoned*

B5. Architectural Style: *utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

Originally existing lath house was once part of a series of three to four lath houses. At least two of the lath houses still in place i 1974, one of which was destroyed by fire in the early 1990s.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *One part of a larger complex of buildings and features that formed an integral component of the Los Angeles County Farm and still later the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *circa* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

As an individual structure the lath house does not have the type of historic associations or architectural significance that wo make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part o distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

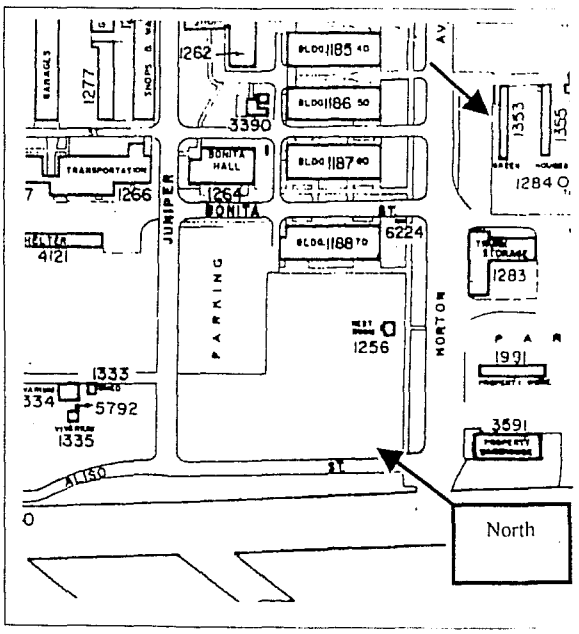
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1356*

P1. Other Identifier: *Tool House*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

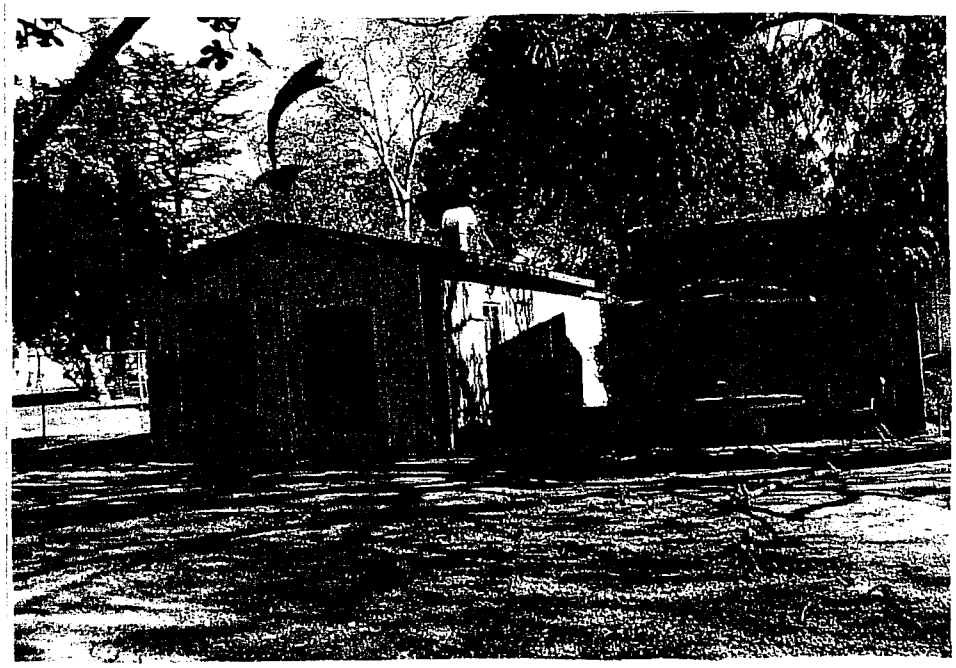
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Built in circa 1933, the vernacular style tool house is capped by a front gable roof, and clad in board-and-batten siding. A small storage shed, capped by a shed roof, projects from the building's south elevation. Its fenestration is comprised of a number of woo sash windows. The building's primary doorway is located on the west elevation.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1936 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1356*

B1. Historic Name: *Tool House*

B2. Common Name:

B3. Original Use: *tool house*

B4. Present Use:

B5. Architectural Style:

B6. Construction History: (Construction date, alterations, and date of alterations)

Built in circa 1933, a shed addition was subsequently added off of the tool house's east elevation. Aluminum framed windows replaced wood framed windows within last 20 to 30 years.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of larger complex of buildings that formed an integral component of the County Farm and later Rancho Los Amigos Hospital.*

B9a. Architect: *unknown*

b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *Circa 1887 -* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrit

As an individual structure the Tool House does not have the type of historic associations or architectural significance that make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not pa distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

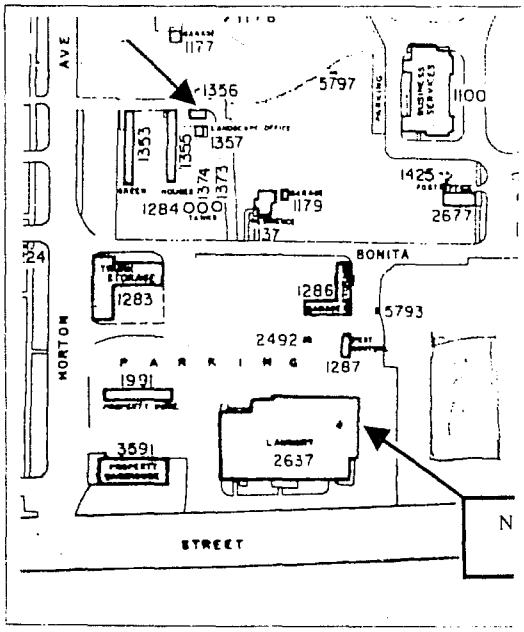
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of Rancho Los Amigos Rehabiliation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Resource Name or #: (Assigned by recorder) *LACO #1357*

P1. Other Identifier: *Landscape/Nursery Office*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

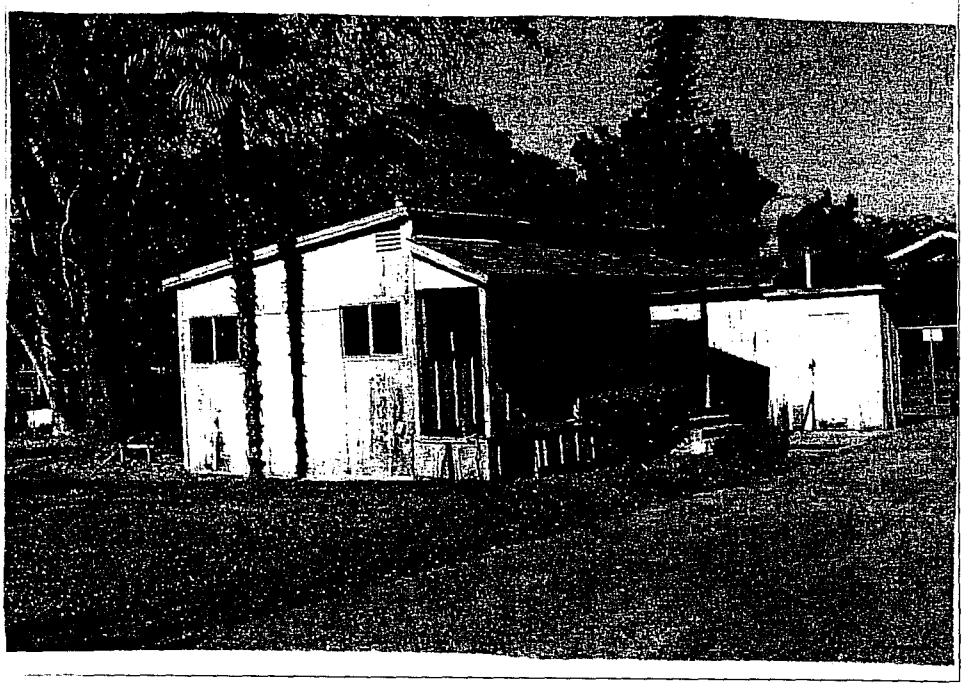
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located just south of the tool house, Building #1357 is a vernacular style, rectangular board-and-batten structure capped by a shed roof. An elevated porch capped by a shed roof, projects from the building's east elevation. The building's fenestration is comprised of aluminum slider windows of varying dimension. The primary entrance is located on the east elevation, where a flush panel wood door, located at the north end of the elevation provides access to the interior.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1938 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Adminstration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
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BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

Page 2 **of** 2 **NRHP Status Code** 6Z

Resource Name or #: (Assigned by recorder) *LACO #1357*

B1. Historic Name: *Landscape Office*
B2. Common Name:
B3. Original Use: *landscaping office* B4. Present Use: *storage*
B5. Architectural Style: *Vernacular*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1938, aluminum framed windows have replaced the orignial wood framed windows. Original door also have been replaced.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of complex of buildings that formed an integral component of the Los Angeles County Farm and still later Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The Landscape Office has retained its original exterior configuration and cladding. Post-construction modifications to the house's exterior include the addition of aluminum frame windows, and the replacement of the original doors. These alterations have significantly diminished the ability of the building to represent its architectural style and period of historic significance. Therefore, the building does not retain sufficient design and physical integrity to communicate its period of significance.

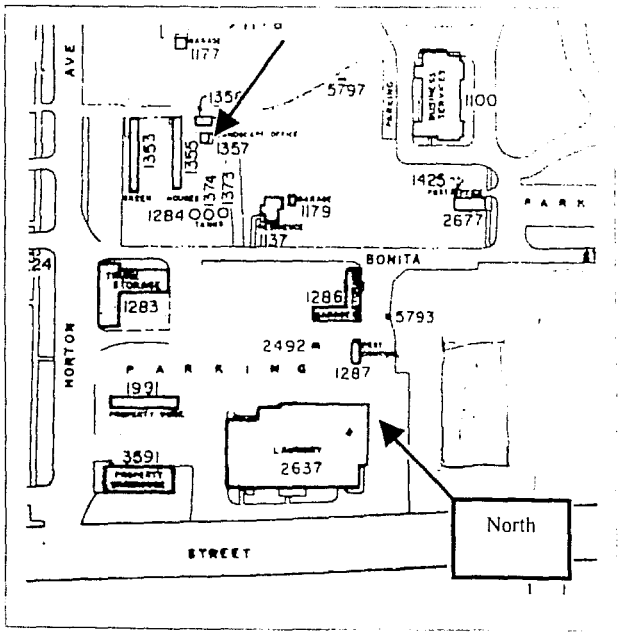
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #1379/4121*

P1. Other Identifier: *Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

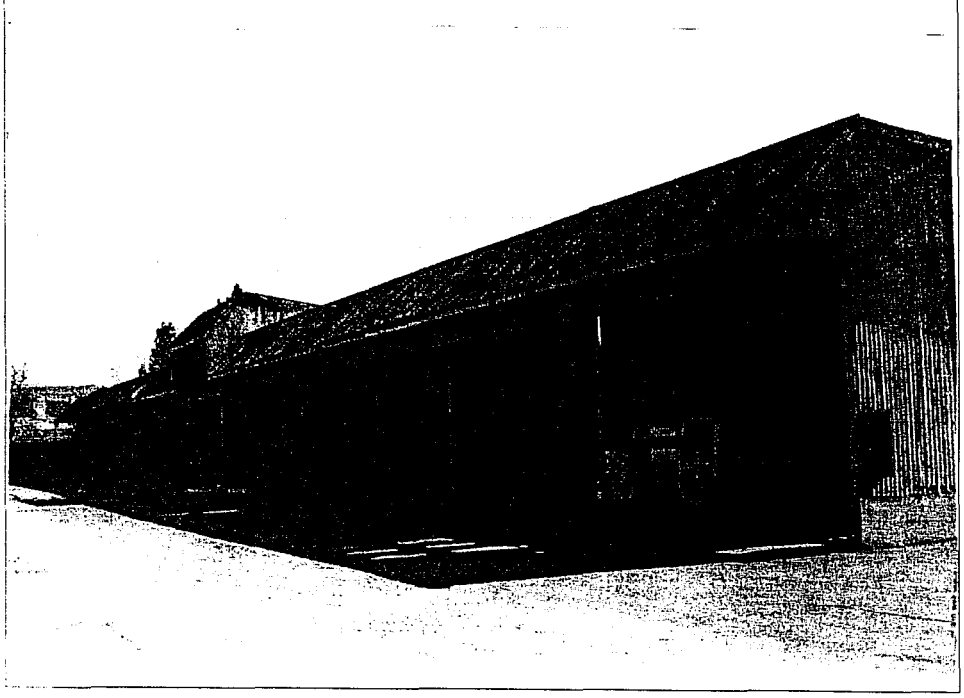
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The garage (Building #1379/4121) is located just south of Building #1267. The rectangular, wood frame building is clad in corrugated metal siding. Its modified shed roof is also covered in corrugated metal. The east, west and south elevations are clad in corrugated metal sheeting. Two hopper windows are placed at the north end of the south elevation. Another window of the same type is placed at the center of the west elevation. The north elevation is divided into a series of open bays by metal poles. The roof of the central bay projects above the roof's ridgeline.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1933-1945 (historic doucmentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1379/4121*

B1. Historic Name:

B2. Common Name: *Garage*

B3. Original Use: *Automotive garage* B4. Present Use: *Vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #1379/4121 was a garage for the Rancho's fleet of trucks and cars. Its precise construction date could not be ascertained. It was built on the site of the poultry yards, which were in place as late as 1930-1932 *(Continued pg. 3)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the garage does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

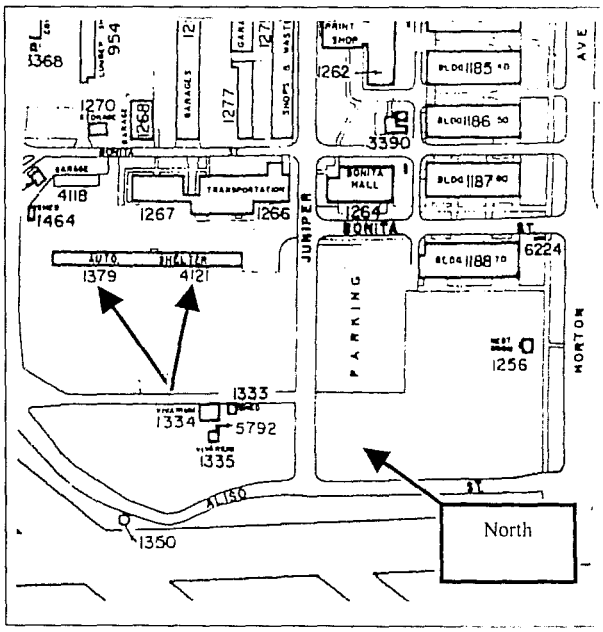
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

This suggests that the garage was not built until sometime after 1932. Based on its design, the building would appear to date somewhere between 1933 and the mid-1940s. The building has been unused since the early 1990s.

State of California — The Resources Agency
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PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code ____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #1464*

P1. Other Identifier: *Shed*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

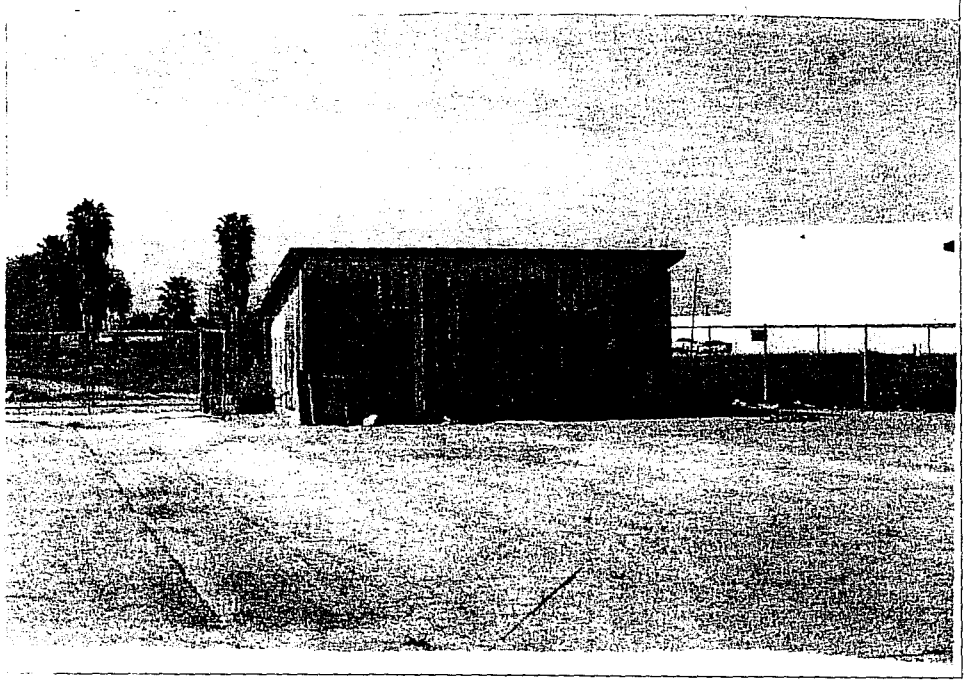
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The shed (Building #1464) is located just northwest of Building #4118. It is a small, rectangular wood frame building capped by a shed roof covered in composition shingles. It walls are clad in vertical planks. Doorways, flanked by a window are placed at either end of the east elevation. The other elevation's have no doors or windows.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1945 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☐ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

Page 2 **of** 2 **NRHP Status Code** 6Z

Resource Name or #: (Assigned by recorder) *LACO #1464*

B1. Historic Name:

B2. Common Name: *Shed*

B3. Original Use: *storage shed* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

The shed was built in 1945. It appears to have been constructed of salvaged materials, perhaps from one of the farm buildings demolished in the mid-1940s. The building has been unused since at least the early 1990s.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *188701950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the shed represents an extremely common example of an early twentieth century vernacular style building tha eschewed explicit references to a particular architectural style. As an individual structure the shed does not have the type o historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

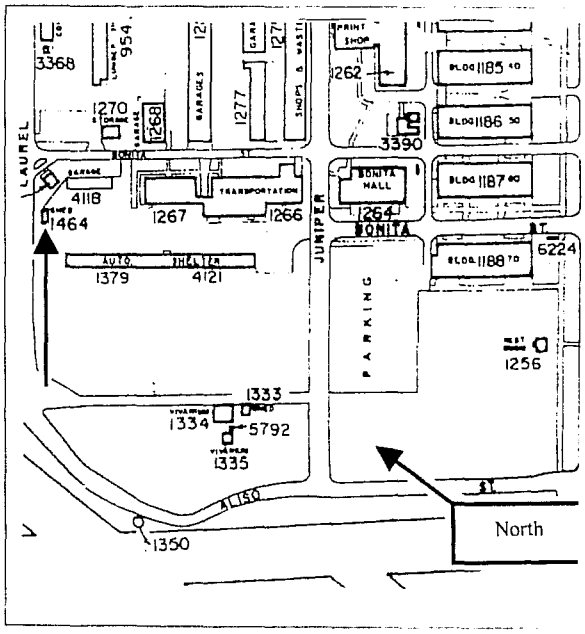
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County. California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #1991*

P1. Other Identifier: *Property Warehouse*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Property Warehouse is located south of the former stable building. It is a narrow, rectangular prefabricated metal building capped by shallow front gable roof. The north and south elevations are linear in configuration. Fenestration is comprised of a series of nine rectangular windows that have been covered by wood planks. Two rectangular windows flank a single panel door located on the east elevation. The west elevation mimics the arrangement of the east elevation. The Property Warehouse (Building #1991) was probably erected in the late 1940s or early 1950s (several other prefabricated metal buildings of the same type are located in the quadrangle of the former Men's' Psychopathic Wards). It is possible that the building was originally sited somewhere else on South Campus and was moved to its current location in the mid-1950s, a time when the former complex of farm buildings were being demolished to make way for the new laundry building.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1940 -1950

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Adminstration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #1991*

B1. Historic Name:

B2. Common Name: *Property Warehouse*

B3. Original Use: *warehouse* B4. Present Use: *storage*

B5. Architectural Style: *Utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built sometime between the late1940s and the early 1950s this prefabricated metal clad building possibly was moved from another location to its present location sometime in the mid-1950s.

B7. Moved? ☐ No ☐ Yes ☒ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Property Warehouse is a prefabricated building dating to circa 1949. As an individual structure the building does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

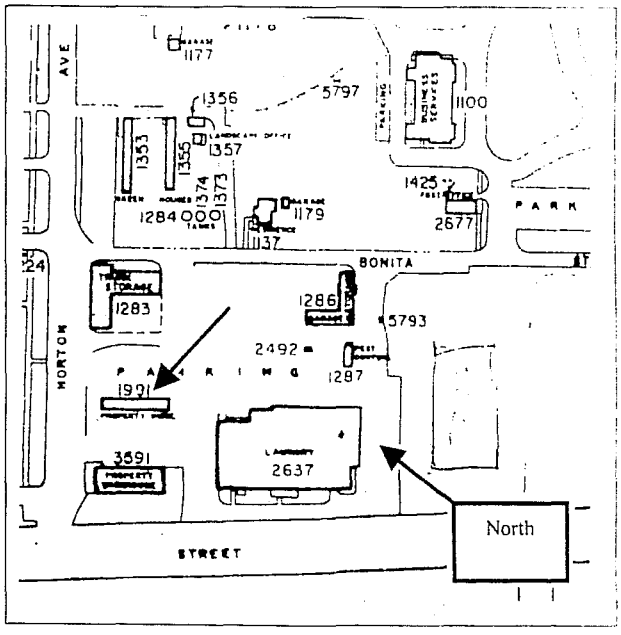
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #2492*

P1. Other Identifier: *Toilet Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

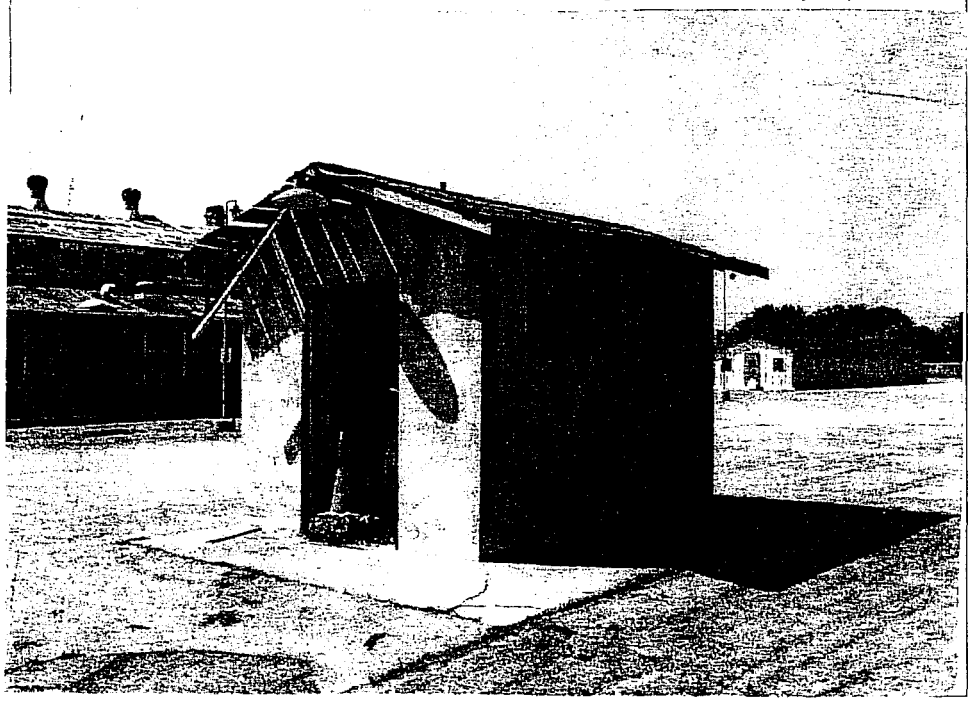
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Toilet Building (Building #2492) is a wood framed, stucco building capped by a shallow front gable roof. It contains two toilet rooms that are accessed through doors on the east and west elevations. Small rectangular, wood frame windows are set into the north and south elevations. The Toilet Building was constructed sometime after 1930. Based on the style of the building it was probably built between circa 1930 and 1945.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1930-1945 (style of building)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles California 90012

P8. Recorded by: (Name, affiliation, and address
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #

BUILDING, STRUCTURE, AND OBJECT RECORD

HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #2492*

B1. Historic Name:

B2. Common Name: *Toilet Building*

B3. Original Use: *restroom* B4. Present Use: *unused*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built circa 1930-1945 the building has undergone little, if any, modifications since its date of construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of complex of buildings that formed an integral component of the County Farm and later Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

As an individual structure the Toilet Building does not have the type of historic associations or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

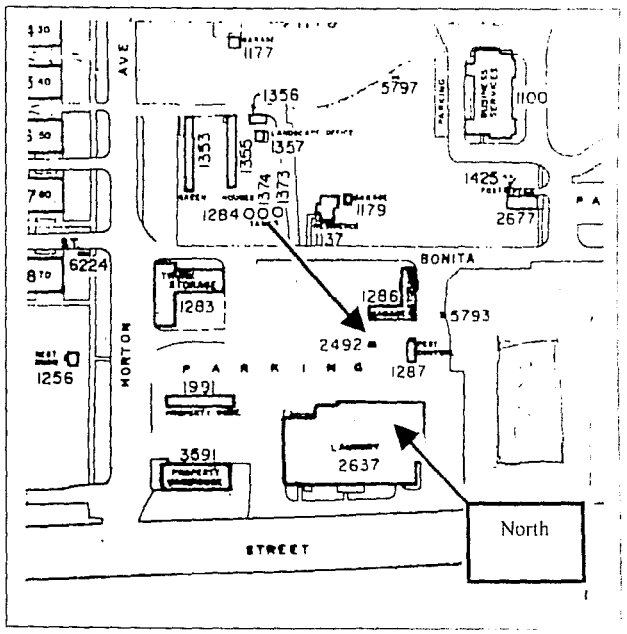
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #2637*

P1. Other Identifier: *Steam Laundry*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

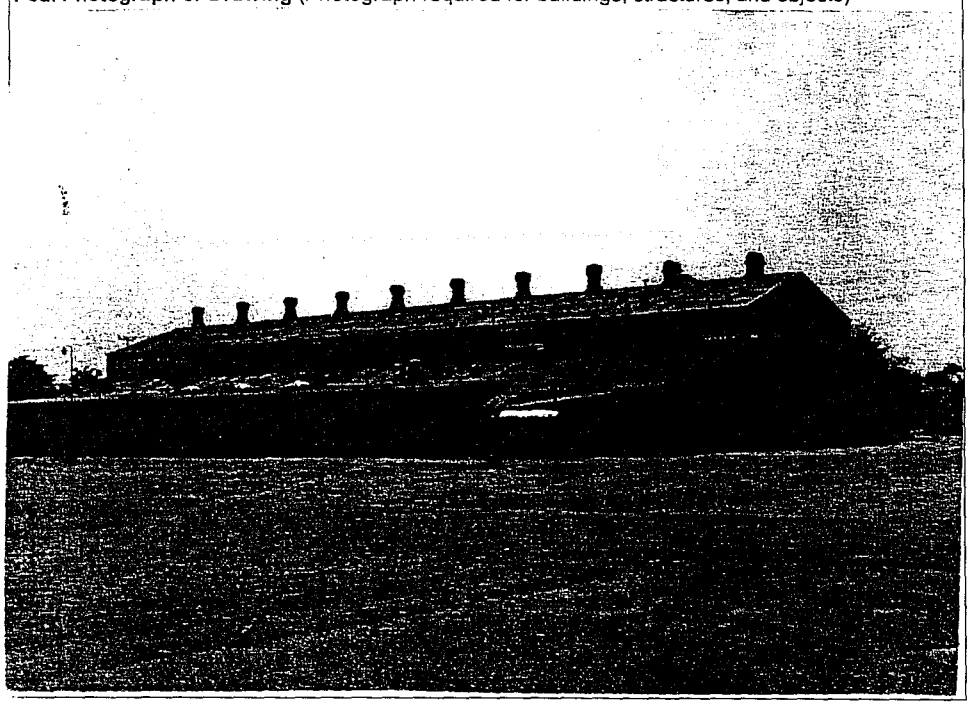
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located near the intersection of Gardendale Street and Erickson Avenue, the Steam Lauandry (Building #2637), is a rectangular metal frame industrial style building. Built in 1951, the building is clad in corrugated metal and is capped by a monitor style roof. A series of ten vents lines the roof's ridgeline. It fenestration is comprised primarily of multi-light metal frame hopper style windows. The west elevation faces toward Erickson Avenue. At the south end of the elevation a set of sliding doors, flanked by hopper style windows, provides access to the building's interior. A concrete loading dock, flanked by a hopper window, is located at the north en of the elevation. At the second floor level a series of hopper windows provides light to the interior. The north elevation is essentiall linear in configuration. A series of doors and hopper windows run the length of the first floor elevation. A linear series of hopper windows runs the length of the upper story. A number of small metal clad additions have been added to the west end of the elevation. The east elevation mimics the window arrangement of the west elevation. The south elevation is essentially linear in configuration. It largely mimics the appearance of the building's north elevation.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1951 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #2637*

B1. Historic Name:

B2. Common Name: *Steam Laundry*

B3. Original Use: *laundry* B4. Present Use: *vacant*

B5. Architectural Style: *Utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

The laundry building was constructed in 1951, to replace an existing laundry facility in Building #1302 (adjacent to the 1926 Power Plant). The new laundry was built in the location of what had been (Continued pg. 3)

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once a part of a larger complex of buildings that formed an integral component of Rancho Los Amigos.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Steam Laundry was built in 1951. The building post-dates the South Campus' period of significance. The building represents a fairly standard type of industrial design dating from the early 1950s. As an individual structure the building does not embody the level of craftsmanship, design or historical association that would make it eligible for nomination to the National Register of Historic Places on the individual level. Because the building lacks individual distinction it would only be eligible for designation under Criterion c, a criterion that the South Campus of Rancho Los Amigos does not meet. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

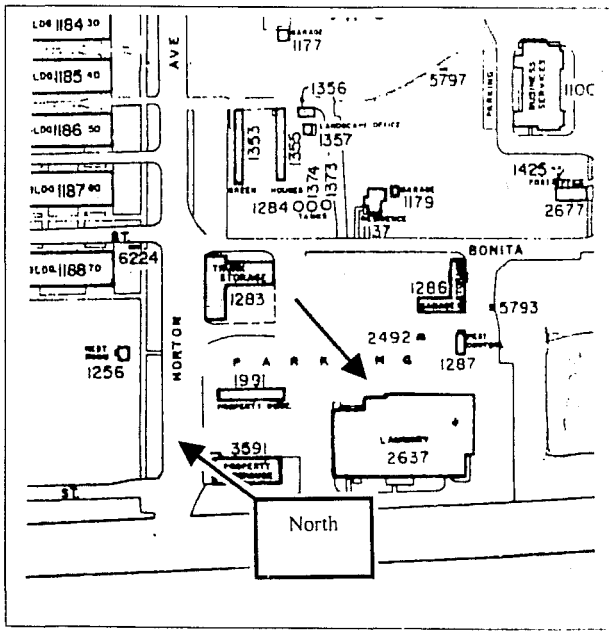
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



B-6

Rancho Los Amigos' complex of farm buildings. The laundry building was one of the last large-scale industrial buildings constructed on the South Campus. In 1983 the Rancho contracted out its laundry service and the laundry building was shut down. The building has been unused since that time.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z
Other Listings
Review Code ____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #2677*

P1. Other Identifier: *Post Office*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

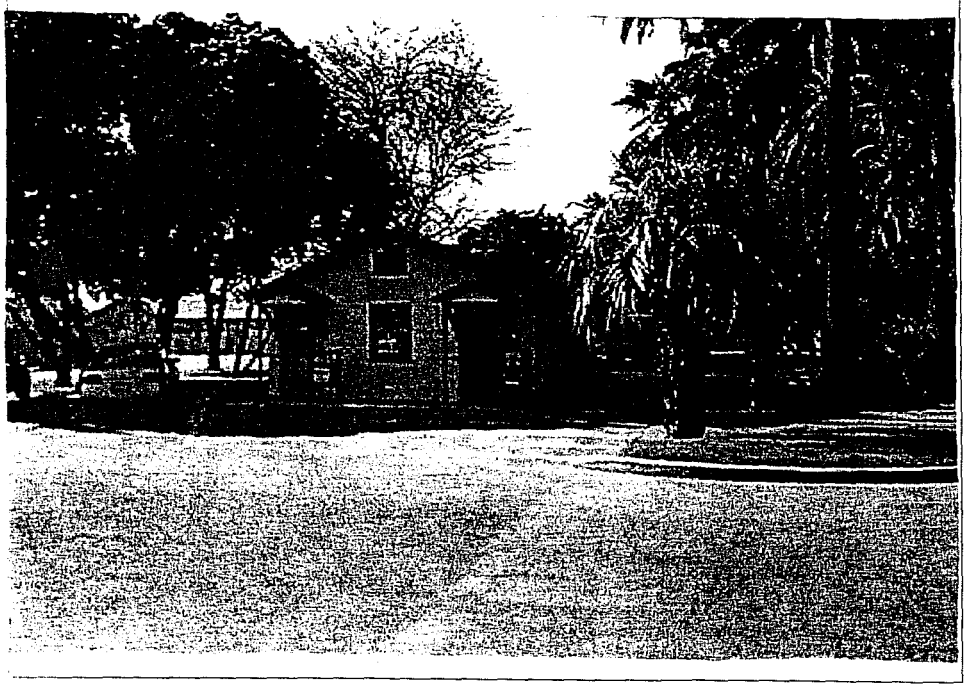
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The post office is located just southeast of Building #1100. It was moved onto the campus in 1949. The one-story wood frame building is capped by a front gable roof and is clad in asbestos type shingles. Its fenestration is primarily multi-light wood sash windows. The east elevation functions as the building's street façade. Two flush panel doors provide access to the building's interior. The north and south elevation are linear in configuration. Their fenestration is comprised of a series of rectangular multi-lig sash windows. The west elevation is linear in configuration. Its fenestration is comprised of two multi-light wood sash windows.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1941-1945 (Historic doumentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Adminstration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street. Santa Barbara, California 93105

P9. Date Recorded: *10/22/2003*

P10. Survey Type: (Describe)

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of Rancho Los Amigos Rehabilitation Center, Los Angeles

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #2677*

B1. Historic Name: *Post Office*
B2. Common Name: *Post Office*
B3. Original Use: *unknown* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building moved onto Rancho Los Amigos Hospital grounds in 1949 from a nearby Army post where it had been built in circa 1941-45. The building underwent a few modifications, including the stuccoing of walls and replacement of several doors.

B7. Moved? ☐ No ☒ Yes ☐ Unknown Date : *1949* Original Location: *nearby military base*

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *United States Army*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The post office building is not in its original location. Several modifications, including the replacement of several doors and t stuccoing of the exterior walls have been made to the building since it was moved onto its present site in 1949. Therefore, t building does not retain its integrity of location. Therefore, the building does not retain sufficient integrity and potential histo significance to require further evaluation.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

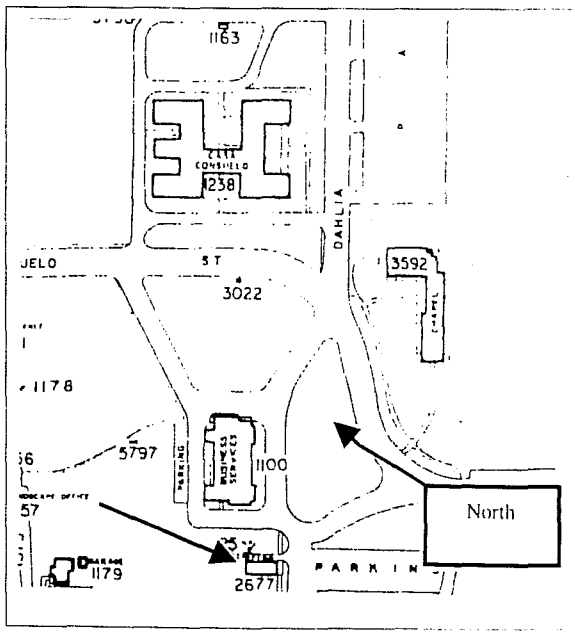
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/22/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #3348*

P1. Other Identifier: *Decontamination/Garbage Can Room*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; B

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

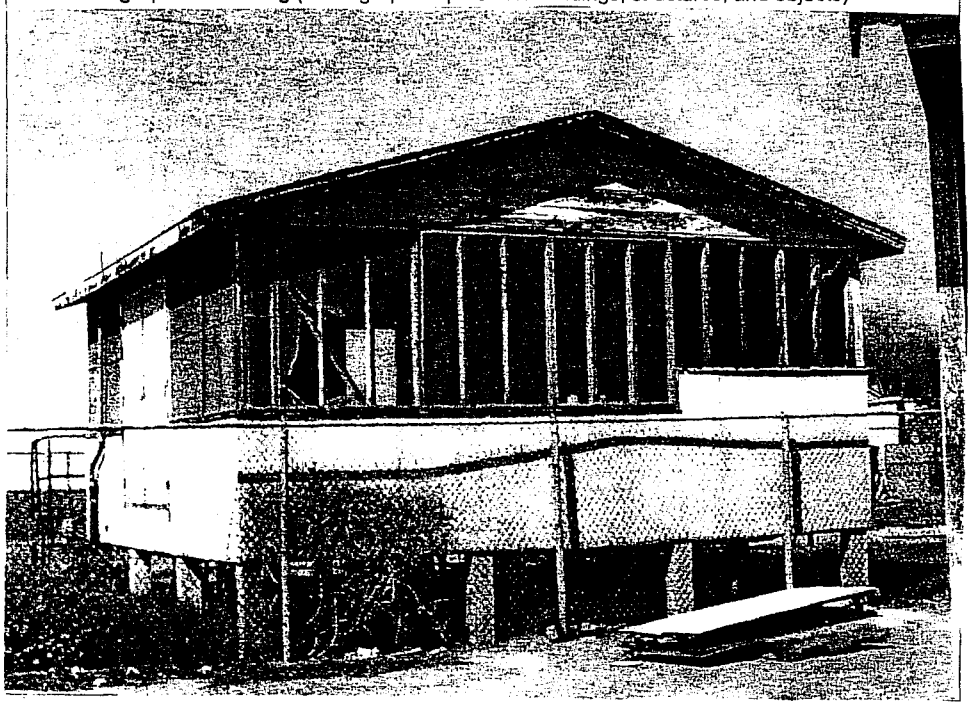
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Decontamination/Garbage Can Room (Building #3348) is located on the southeast corner of the intersection of Bonita and Laure Streets. The wood frame stucco-clad building is capped by a composition shingle, front gable roof. Raised on piers the building has a loading dock running the length of its west elevation. The upper two-thirds of the exterior walls is mostly taken up with screened openings. Double flush panel doors are located at the center of the south elevation.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1951 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administraton, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments ☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of the Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #3348*

B1. Historic Name:

B2. Common Name: *Decontamination/Garbage Can Room*

B3. Original Use: *storage for garbage cans* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

Documentation indicates that the building was constructed in 1951 to serve as storage and collection point for the facilitiy's garbage cans. Like other post World War II buildings it may have been built of materials salvaged from demolished buildings.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the Decontamination Building represents a fairly common example of a mid-twentieth century, vernacular style institutional building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

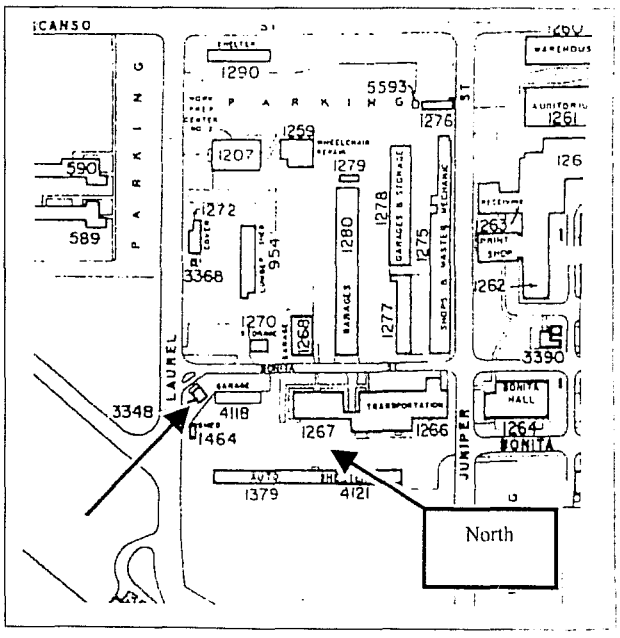
Post/hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitaiton Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #3368*

P1. Other Identifier: *Shed*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Building #3368 is a small shed roofed building that is located west of Building #954. Set on a raised foundation, the building is entirely constructed of concrete. Its façade faces east. It consists of two doors that open onto a solid concrete stoop that is lined with a pipe style railing. The building's only fenestration is comprised of two wood frame windows on the west elevation.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1950-1959 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #

BUILDING, STRUCTURE, AND OBJECT RECORD

HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #3368*

B1. Historic Name:

B2. Common Name: *Shed*

B3. Original Use: *flammable material storage* B4. Present Use: *vacant*

B5. Architectural Style: *Utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

Building #3368 was constructed sometime in the early to late 1950s. Its fireproof construction suggests that it may have been used to store flammable materials. A canopied structure (Building #1272) (Continued pg. 3)

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design this building represents a fairly common example of an mid-twentieth century industrial style building that eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

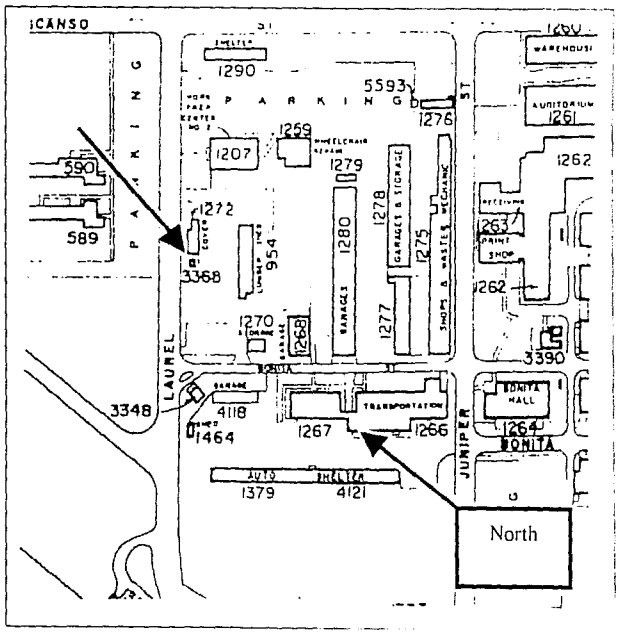
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County. California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

once located adjacent to the building's north elevation was demolished sometime after 1974. Within the last ten years Building #3368 has been damaged by vandalism.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 of 2 **Resource Name or #:** (Assigned by recorder) *LACO #3390*

P1. Other Identifier: *Prosthetic Shop*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Prosthetic Shop, built in 1953, is located just north of Bonita Hall. It is a one-story , u-shaped building that is capped by a combination of shed and gable roofs. The fenestration is primarily comprised of casement type windows. The west elevation is linear in configuration. Its fenestration consists of a ribbon window divided into of four segments. The north elevation is u-shaped in configuration. The roofline of this elevation is made up of three shed roofs of varying pitches. The east elevation is also u-shaped in configuration. Its two diminutive wings are capped by front gable roofs. The south elevation is linear in configuration. Its fenestration is primarily composed of wood casement windows. A single leaf doorway is place near the east end of the elevation.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1953 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #3390*

B1. Historic Name:

B2. Common Name: *Prothestic Shop*

B3. Original Use:

B4. Present Use: *shop/storage*

B5. Architectural Style: *Modernist*

B6. Construction History: (Construction date, alterations, and date of alterations)

The Prothesitc Shop was built in 1953 for the purpose of making and distributing prothestics. It is one of the few buildings at Rancho Los Amigos to incorporate references to Modernist architecture.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown*

b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

While the building does include references to the Modernist design, the building does not have the type of historic association or architectural significance that would make it eligible for nomination to the National Register of Historic Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as a contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

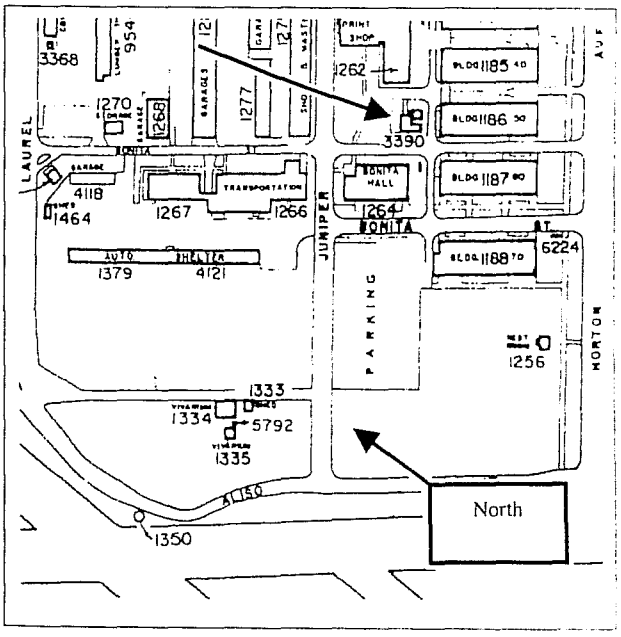
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles, California 90012

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #3591*

P1. Other Identifier: *Property Warehouse*

P2. Location: ☐ **Not for Publication** ☐ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

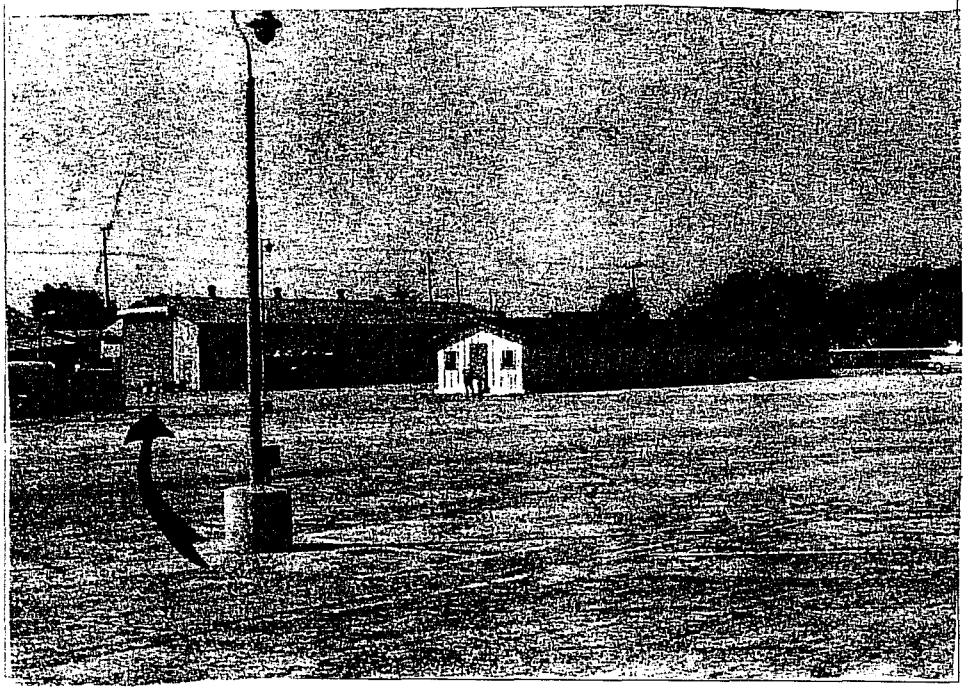
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Proeprty Warehouse (Building #3591), constructed sometime between 1965 and 1974, is a prefabricated metal building that is used as a storage facility. It is rectangular in configuration. Capped by a front gable roof the building's primary entrance is a roll-up door located on the east elevation.

P3b. Resource Attributes: (List attributes and codes)

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1965-1974 (Historic documentation and maps)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administraton, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine, 2607 Orella Street, Santa Barbara, California 93015

P9. Date Recorded: *10/23/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #3591*

B1. Historic Name:

B2. Common Name: *Property Warehouse*

B3. Original Use: *Warehouse* B4. Present Use: *Storage*

B5. Architectural Style: *Utilitarian*

B6. Construction History: (Construction date, alterations, and date of alterations)

Built sometime between 1965 and 1974, the prefabricated metal building appears to have undergone no significant alterations since its construction.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

The Property Warehouse is a pre-fabricated metal building that was erected in circa-1970 or later. The building is less than 50 years of age and post-dates the property's period of significance (1887-1950). Therefore, further evaluation will not be required.

B11. Additional Resource Attributes: (List attributes and codes)

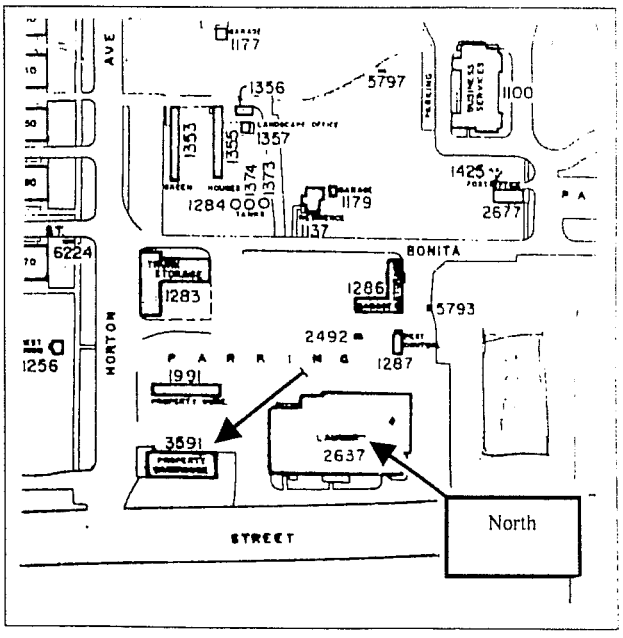
B12. References:

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/23/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date**

Page 1 **of** 3 **Resource Name or #:** (Assigned by recorder) *LACO #3592*

P1. Other Identifier: *Chapel*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Building #3592 was constructed in 1955 to replace a smaller chapel built in 1907 (Building #1254). It is comprised of two chapels s at right angles to each other. The Protestant/Jewish chapel and Catholic chapel are joined at the rear which creates an L-shaped configuration. The roof is front-gabled with an intersecting gable at the north end. Roof materials are composition shingles and the wall cladding is stucco. Fenestration is primarily three-light, metal casement type. The west elevation is comprised of the projectin wing that forms the Roman Catholic chapel and side elevation of the Protestant/Jewish chapel. The facade of the Roman Catholic chapel is capped by a front gable roof. A one-story tall shed-roofed porch shelters the centrally placed double entrance doors. A quatrefoil window is placed below the peak of the slightly projecting roof. A Mission Style bell tower is placed at the peak of the roo The side elevation of the Protestant/Jewish chapel is linear and comprised of lower aisles flanking a taller nave. The fenestration o the nave and aisles is comprised of a symmetrical arrangement of multi-light, metal hopper windows. At the south end of the Protestant/Jewish chapel a one-story porch shelters the door leading to the chapel's vestibule (cont. pg 2)

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1955 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

P3. Description

The south elevation is comprised of the façade of the Protestant/Jewish chapel and the side elevation of the south of the Roman Catholic chapel. A Mission Revival style bell tower (similar to that of Mission San Gabriel) stands on the west end of the façade of the Protestant/Jewish chapel. This bell tower has three arched openings for bells. A centrally placed round window is above the shed roofed entrance porch of the Protestant/Jewish chapel. The porch roof is supported with square piers. Two porches, capped with side-gabled roofs and supported with piers, project from the ends of the Protestant/Jewish chapel. The fenestration of this elevation of the Roman Catholic chapel is linear in configuration. This elevation of the Roman Catholic chapel is linear and comprised of a lower aisle flanking a taller nave. The fenestration of the nave and aisles is comprised of a symmetrical arrangement of multi-light, metal hopper windows. The east elevation is comprised of the nave of the Protestant/Jewish chapel and the rear elevation of the Roman Catholic chapel. Fenestration is a symmetrical arrangement of metal casement windows. A one-story wing that projects from the sanctuary of the Roman Catholic chapel is attached to the rear of the Roman Catholic chapel. The north elevation is comprised of the nave of the Roman Catholic chapel and the rear elevation of the Sanctuary of the Protestant/Jewish chapel. The fenestration of the nave is a symmetrical arrangement of metal casement windows. A one-story wing that projects from the Protestant /Jewish chapel's sanctuary is attached to the rear of the Roman Catholic chapel.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #3592*

B1. Historic Name: *Chapel*
B2. Common Name: *Chapel*
B3. Original Use: *Chapel* B4. Present Use: *vacant*
B5. Architectural Style: *Mediterranean Revival*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1955 to replace an earlier chapel on the Rancho Los Amigos, South Campus. The building has been vacent for at least the last 15 years.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Part of the South Campus or Rancho Los Amigos*

B9a. Architect: b. Builder:
B10. Significance: Theme: Area:
Period of Significance: *1887-1950* **Property Type:** *public* **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The chapel building is less than 50 years of age. Therefore, it is not eligble for the National Register of Historic Places.

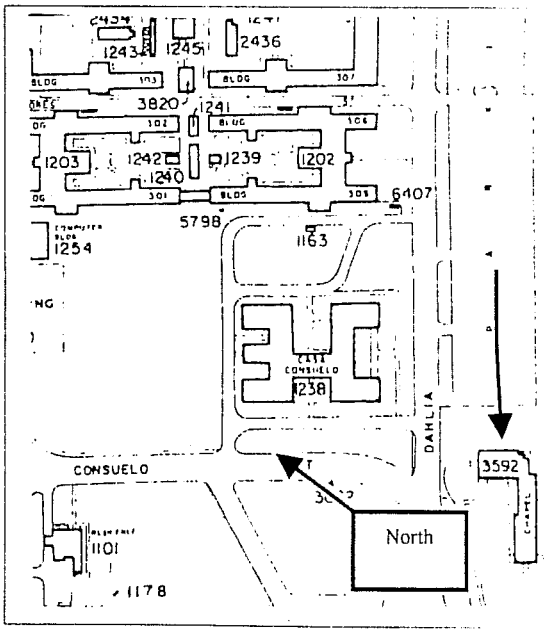
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital* *HP16 - Religious building*

B12. References:
Post/Hazeltine Associates 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California.

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code 6Z

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

 Resource Name or #: (Assigned by recorder) *LACO #4118*

P1. Other Identifier: *Garage*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ;

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; mE/ mN

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

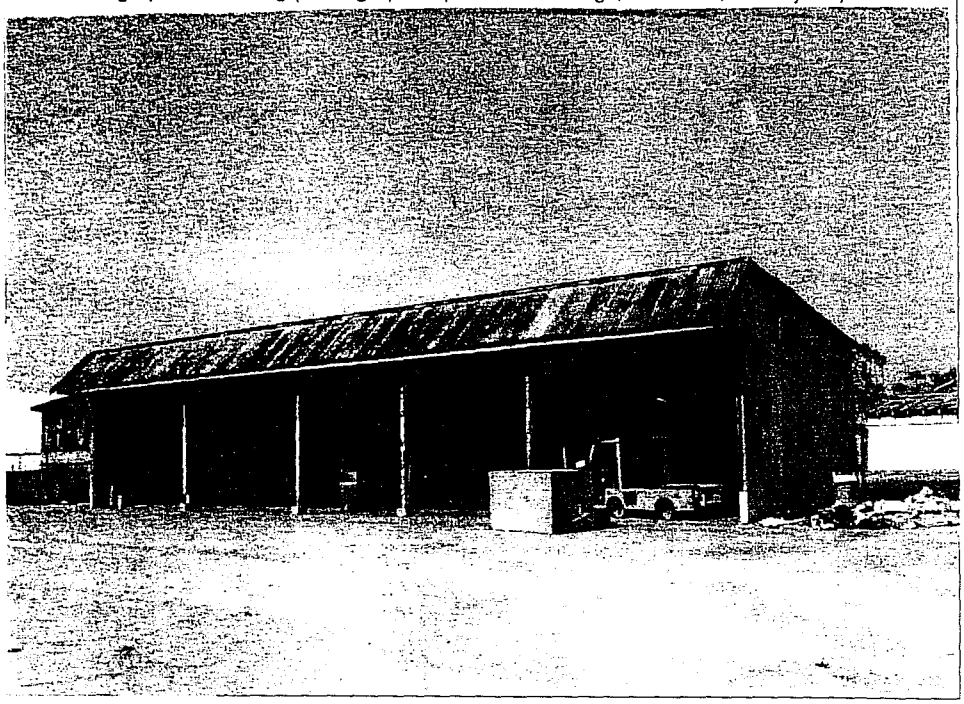
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The garage (Building #4118) is located just northwest of Building #1379/4121. It mimics on a smaller scale the design features and building materials of Building #1379/4121. A modified shed roof caps the building. Both the walls and roof are covered in corrugate metal sheeting. The south elevation is divided into a series of five open bays by pipe style posts.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

Circa 1933 -1945 (historic documentation)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, California 93105

P9. Date Recorded: *10/27/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☒ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #4118*

B1. Historic Name:

B2. Common Name: *Garage*

B3. Original Use: *automotive garage* B4. Present Use: *vacant*

B5. Architectural Style: *Vernacular style*

B6. Construction History: (Construction date, alterations, and date of alterations)

This structure, like Building #1379/4121, was a garage for the Rancho's fleet of trucks and cars. Its precise construction date could not be ascertained. It is not depicted on the 1929-1931 Sanborn Fire Insurance Map *(Continued pg. 3)*

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once part of a larger complex of buildings that formed an integral component of the Los Angeles County Farm and still later, the Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Utilitarian in design the garage represents a fairly common example of an early twentieth century industrial style building tha eschewed explicit references to a particular architectural style. As an individual structure the building does not have the type c historic associations or architectural significance that would make it eligible for nomination to the National Register of Histori Places on an individual level. In addition, it is not part of a distinguishable entity that would make it eligible for nomination as contributing element to a historic district.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

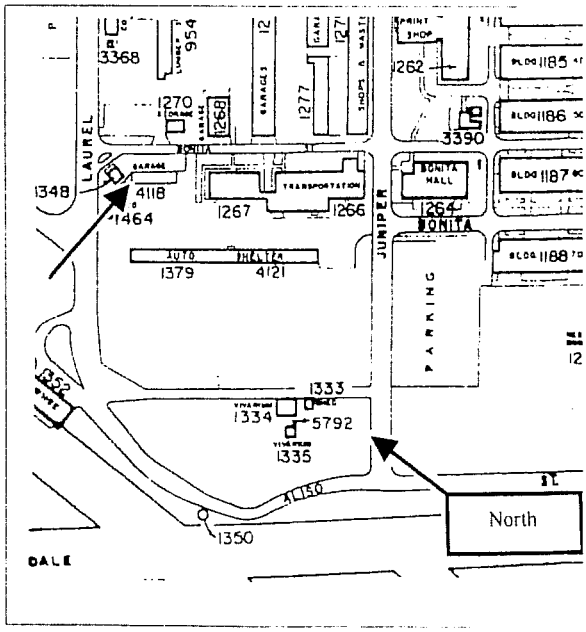
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey of the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/27/2003*

(This space reserved for official comments.)



B-6

or on site plan of the Rancho prepared in circa 1932. This suggests that the garage was not built until sometime after 1932. Based on its design, the building would appear to date somewhere between 1933 and the mid-1940s. The building has been unused since the early 1990s.

State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #5028*

P1. Other Identifier: *Patient Ward Building*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This one-story t-shaped building replaced the one-story patient wards located at the intersection of Descanso and Hawthorn Streets. Capped with a flat roof, and clad in a combination of brick and stucco, the building is an example of Second Modernism, the dominant architectural style for corporate and institutional buildings from the mid-1940s through the late 1960s.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1963 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of RAncho Los Amigos Rehabilitation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #5028*

B1. Historic Name: *Patient Ward Building*
B2. Common Name:
B3. Original Use: *patient ward* B4. Present Use: *vacant*
B5. Architectural Style: *Second Modernism*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1963, the building is a modest interpretation of Modernist architecture in the postwar period.

B7. Moved? ☐ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *Once part of a complex of patient wards that formed an integral component of Rancho Los Amigos Hospital*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The patient ward building is less than 50 years of age; no further evaluation is required.

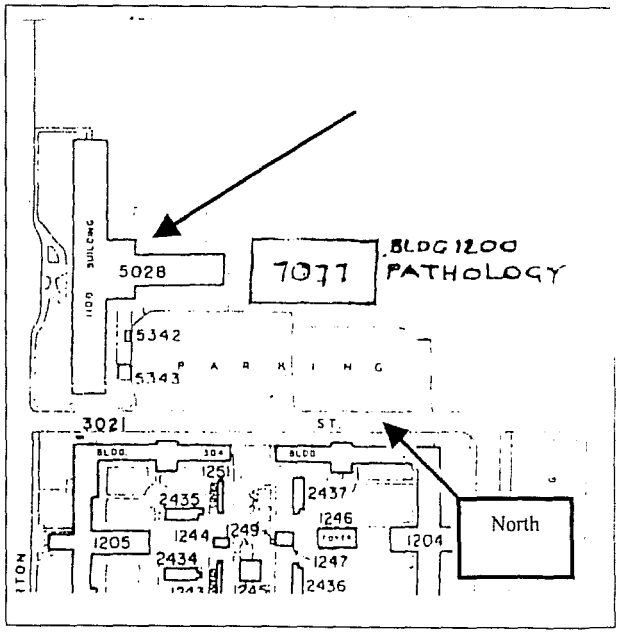
B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code *6Z*

Other Listings
Review Code _____ **Reviewer** _____ **Date** _____

Page 1 **of** 2 **Resource Name or #:** (Assigned by recorder) *LACO #5547*

P1. Other Identifier: *Circular Metal Tank*

P2. Location: ☐ **Not for Publication** ☒ **Unrestricted** **a. County** *Los Angeles County*

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

b. USGS 7.5' Quad **Date** **T** ; **R** ; **1/4 of** **1/4 of Sec** ; **B.M**

c. Address: *7601 East Imperial Blvd.* City *Downey* Zip *90242*

d. UTM: (Give more than one for large and/linear resources) ; **mE/** **mN**

e. Other Locational Data (Enter Parcel #, legal description, directions to resource, elevation, etc., as appropriate)

Parcel No.

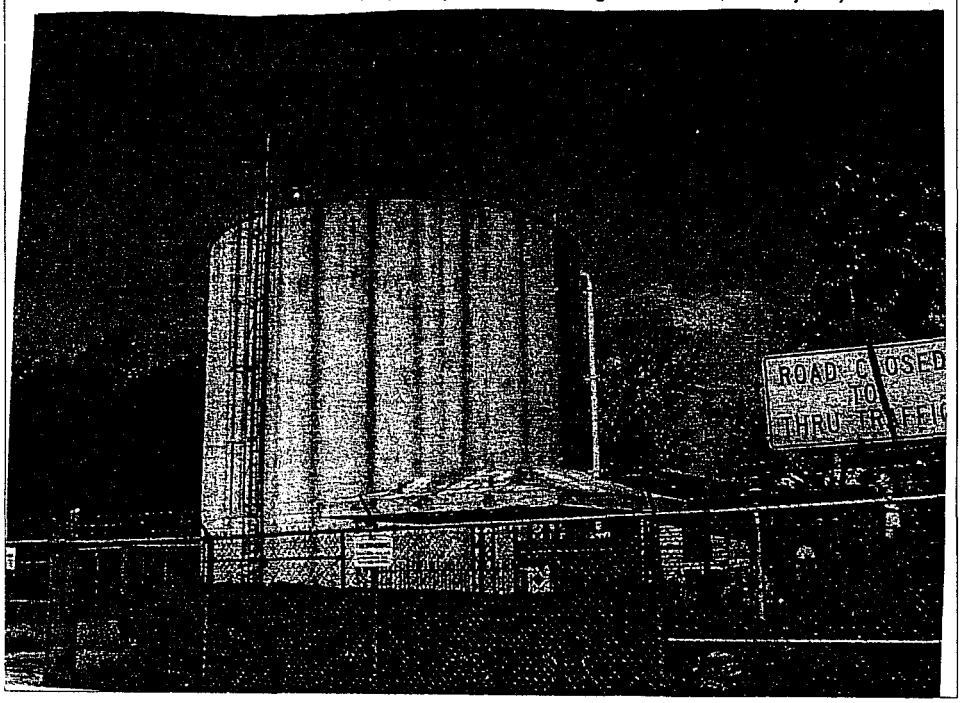
P3. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This circular metal tank is located just south of Building #1121. The tank was built in 1966.

P3b. Resource Attributes: (List attributes and codes) *HP41 - Hospital*

P4. Resources Present ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)



P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both

1966 (factual)

P7. Owner and Address
County of Los Angeles, Kenneth Hahn Hall of Administration, 500 Temple Street, Los Angeles, California 90012

P8. Recorded by: (Name, affiliation, and address)
Post/Hazeltine Associates, 2607 Orella Street, Santa Barbara, CA 93105

P9. Date Recorded: *10/17/2003*

P10. Survey Type: (Describe)
Intensive

P11. Report Citation: (Cite survey report and other sources, or enter "none")

Attachments
☐ NONE ☐ Continuation Sheet ☐ District Record ☐ Rock Art Record ☐ Other: (List)
☒ Location Map ☒ Building, Structure, and Object Record ☐ Linear Feature Record ☐ Artifact Record
☐ Sketch Map ☐ Archaeological Record ☐ Milling Station Record ☐ Photograph Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #5547*

B1. Historic Name: *Circular Metal Tank*

B2. Common Name:

B3. Original Use: *storage tank* B4. Present Use: *storage tank*

B5. Architectural Style: *vernacular*

B6. Construction History: (Construction date, alterations, and date of alterations)

The stroage tank was built in 1966. It is unclear as to whether it is still in use.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:

B8. Related Features: *Once a part of a complex of buildings and features that formed an integral component of Rancho Los Amigos Hospital.*

B9a. Architect: *unknown* b. Builder: *County of Los Angeles*

B10. Significance: Theme: *Public Health* Area:

Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)

Less than 50 years of age; no further evaluation is required.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*

B12. References:

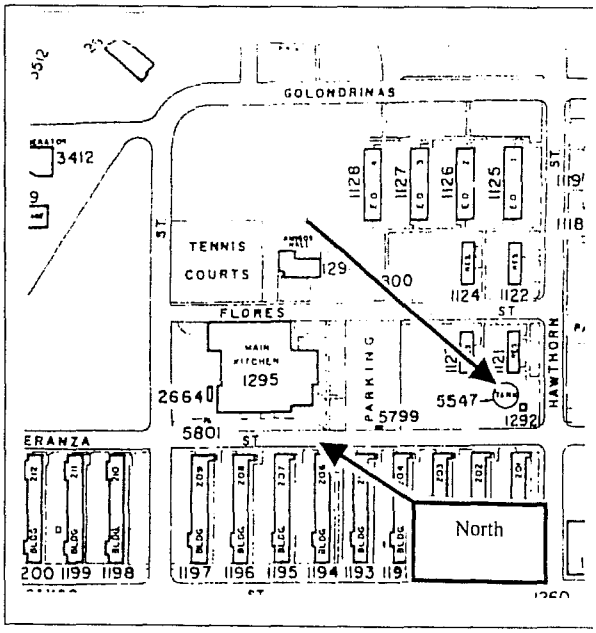
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehailitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*

Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary #
HRI #

NRHP Status Code 6Z

Resource Name or #: (Assigned by recorder) *LACO #5548*

B1. Historic Name: *1966 Power Plant*
B2. Common Name:
B3. Original Use: *Power Plant* B4. Present Use: *Power Plant*
B5. Architectural Style: *Utilitarian*
B6. Construction History: (Construction date, alterations, and date of alterations)
Built in 1966, the flat-roofed, single-story brick building was built to house a steam power facility. The power plant is still in use.

B7. Moved? ☒ No ☐ Yes ☐ Unknown Date : Original Location:
B8. Related Features: *The Power Plant is part of a complex of buildings associated with Rancho Los Amigos Hospital. Still in use, it is one of the few buildings on the South Campus still in operation.*

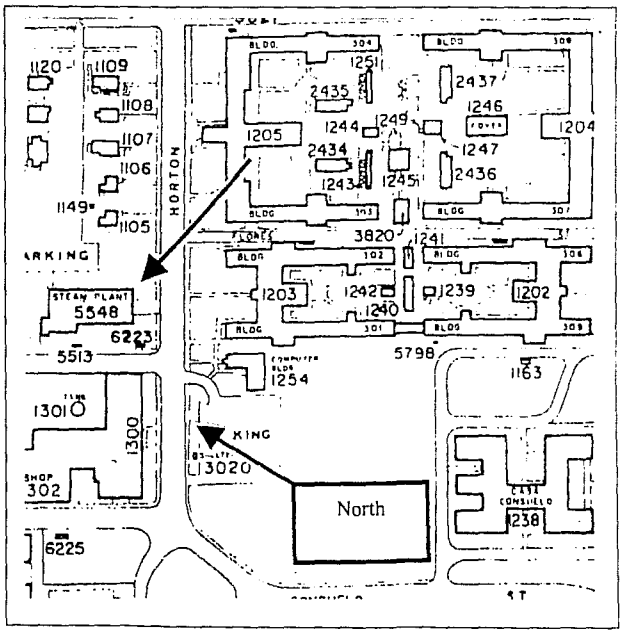
B9a. Architect: *unknown* b. Builder: *County of Los Angeles*
B10. Significance: Theme: *Public Health* Area:
Period of Significance: *1887-1950* **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period and geographic scope. Also address integrity.)
The Power Plant is less than 50 years of age; no further evaluation is required.

B11. Additional Resource Attributes: (List attributes and codes) *HP41 - Hospital*
B12. References:
Post/Hazeltine Associates, 2003: Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California

B13. Remarks:

B14. Evaluator: *Pamela Post*
Date of Evaluation: *10/17/2003*

(This space reserved for official comments.)



Appendix G

Previous Evaluation by Sapphos Environmental, Inc., 2007-2011

Rancho Los Amigos Historic District

Update Report

Prepared for:

County of Los Angeles
Chief Executive Office
Kenneth Hahn Hall of Administration
500 West Temple Street, Room 754
Los Angeles, California 90012

Prepared by:

Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

July 15, 2011

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SECTION ES
EXECUTIVE SUMMARY

This Historic District Update Report presents the results of an intensive survey update of the Rancho Los Amigos Historic District (District), located on the South Campus of the Rancho Los Amigos in the City of Downey, County of Los Angeles, California. The survey was conducted by Sapphos Environmental, Inc. from 2007 to 2010 on behalf of the County of Los Angeles (County). The survey update was undertaken to assist the County with preparation of a master plan for the Rancho Los Amigos National Rehabilitation Center and to provide information necessary to determine the feasibility of rehabilitation and adaptive reuse of District contributors. The survey update also was intended to resolve contradictory results from two previous historic resources surveys. In 1995, a survey conducted by Historic Resources Group (HRG) documented a total of 103 buildings, structures, and features on the South Campus, 78 of which were determined to be contributing elements to a historic district eligible for listing in the National Register of Historic Places (NRHP).[1] In 2004, pursuant to a contract with the County, Post/Hazeltine Associates completed the Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California,[2] indicating that 11 of 78 buildings, structures, and features inventoried were individually eligible for listing in the NRHP, 10 of which had been previously identified as contributing features of the District by HRG. As a result of the 1995 survey, the Rancho Los Amigos Historic District was officially determined eligible for listing in the NRHP on September 30, 1996, and subsequently listed in the California Register of Historical Resources (CRHR).

The current (2007–2010) investigation of 129 buildings, structures, and features resulted in the determination that there are 68 extant contributors to the District. Of the 78 original contributing resources identified in the 1995 survey,

- 6 buildings, structures, and features are no longer extant.[3] These include Patient Wards 212 and 214 (LACO Nos. 1200 and 1201), which were removed circa 2001; the 1930 shed and 1931 shed (LACO Nos. 1272 and 1333); the Vivarium (LACO No. 1334); and the Train Station (LACO No. 1352).
- 4 no longer contribute to the significance of the District: 3 because of loss of integrity (LACO Nos. 1243, 1251, and 1279) and 1 because of a date of construction that postdates the period of significance (LACO No. 4118).
- 1 additional building (LACO No. 1242) has been identified as a potential contributor to the District.
- 1 structure (the Smoke Stack) was addressed as a separate resource in 1995, when it should have been included as part of the Power Plant (LACO No. 1300).

In addition, the 2007–2010 survey update revised the evaluation of 1 of the 11 resources found individually significant in 2004. The Superintendent's Shed (LACO No. 1178) was identified during

[1] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

[2] Post/Hazeltine Associates. 19 March 2004. *Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California*. Santa Barbara, CA. Prepared for: County of Los Angeles.

[3] It is unknown exactly why the buildings were demolished, as none of the documentation collected in support of the 2007–2010 Historic District analysis indicated why or when the buildings were removed from the property.

the 2004 survey as being potentially eligible for the CRHR; however, during the 2007–2008 survey, it was found to lack sufficient historic merit to be characterized as a contributing resource to the District. Because the building was not evaluated as part of the 1995 survey and is not listed as one of the 78 original contributors to the District, this conclusion does not change the total number of extant contributors within the District.

The remaining extant buildings, structures, and features on the South Campus were identified as noncontributors to the Historic District, either because they were previously determined to be noncontributors or because they lack sufficient age, historic association, and/or architectural character to be a part of the District.

The District was determined eligible for the NRHP and listed in the CRHR under Criterion A/1, association with events that have a made a significant contribution to the broad patterns of history. The 1995 survey that resulted in the determination of eligibility of the Rancho Los Amigos Historic District stated that the District is significant under NRHP Criterion A "for its association with the turn-of-the-century health care of Los Angeles County's indigent population and for its later treatment of those in Los Angeles County with chronic illnesses, both mental and physical."[4] The 2007–2010 survey update confirmed the importance of the role of Rancho Los Amigos in evolution of the County welfare and health care systems.

These conclusions were reached as a result of records searches, extensive archival research and literature reviews, and field surveys. Integrity was assessed through physical inspections and utilized the results of architectural and structural conditions assessments and measured drawings prepared in support of a concurrent rehabilitation and adaptive reuse feasibility study. Evaluations of significance utilized the criteria of significance for the NRHP and CRHR. The historic context for the development of the District was developed to provide a framework for the evaluations of significance. As a result of the historic context, a District period of significance of 1888–1945 was recommended.

[4] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

SECTION 1.0
INTRODUCTION

1.1 PURPOSE OF THE HISTORIC DISTRICT UPDATE

This Historic District Update Report presents the results of an intensive survey update of the Rancho Los Amigos Historic District (District), located on the South Campus of the Rancho Los Amigos in the City of Downey, County of Los Angeles, California. The survey was undertaken to assist the County of Los Angeles (County) with the development of the Rancho Los Amigos Campus Plan and Specific Plan. The Campus Plan incorporates development standards and design guidelines to accommodate redevelopment of portions of the former Rancho Los Amigos National Rehabilitation Center. The corresponding Specific Plan would be adopted by the City of Downey to update zoning to reflect the Campus Plan. The survey update was also undertaken to resolve conflicts between two existing historic resources surveys of the South Campus. In 1995, a survey conducted by Historic Resources Group (HRG) documented a total of 103 buildings, structures, and features on the South Campus, 78 of which were determined to be contributing elements to a historic district eligible for listing in the National Register of Historic Places (NRHP).[5] In 2004, pursuant to a contract with the County, Post/Hazeltine Associates completed the Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California,[6] indicating that 11 of 78 buildings, structures, and features inventoried were individually eligible for listing in the NRHP, 10 of which had been previously identified as contributing features of the District by HRG. In 2006, the County retained Sapphos Environmental, Inc. to update the survey and to assess the feasibility of rehabilitation and adaptive reuse of the historic buildings, structures, and features within the District. The objectives of the survey update were to examine the existing district boundaries, the historic context and period of significance, and to re-evaluate the significance and integrity of the district as a whole as well as individual buildings and structures.

1.2 HISTORIC DISTRICT LOCATION

The Rancho Los Amigos National Rehabilitation Center is composed of 212 acres owned by the County, in the western portion of the City of Downey, County of Los Angeles, California (Figure 1.2-1, *Regional Vicinity*). It is bisected by Imperial Highway, creating two campuses: the North Campus, 48 acres north of Imperial Highway; and the South Campus, 164 acres south of Imperial Highway (Figure 1.2-2, *Local Vicinity*). The 52.2-acre Historic District is located within the South Campus of the Rancho Los Amigos National Rehabilitation Center (Figure 1.2-3, *Historic District*). The Historic District is approximately 1 mile north of U.S. Interstate 105, 3.3 miles northeast of U.S. Interstate 5, 1 mile east of U.S. Interstate 710, and 3.25 miles west of U.S. Interstate 605. The site is roughly bounded by Flores Street and Golondrinas Street to the north, Dahlia Avenue to the east, Gardendale Street to the south, and Laurel Street to the west. The Historic District appears on the U.S. Geological Survey (USGS) 7.5-minute series South Gate, California, topographic

[5] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

[6] Post/Hazeltine Associates. 19 March 2004. *Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California*. Santa Barbara, CA. Prepared for: County of Los Angeles.

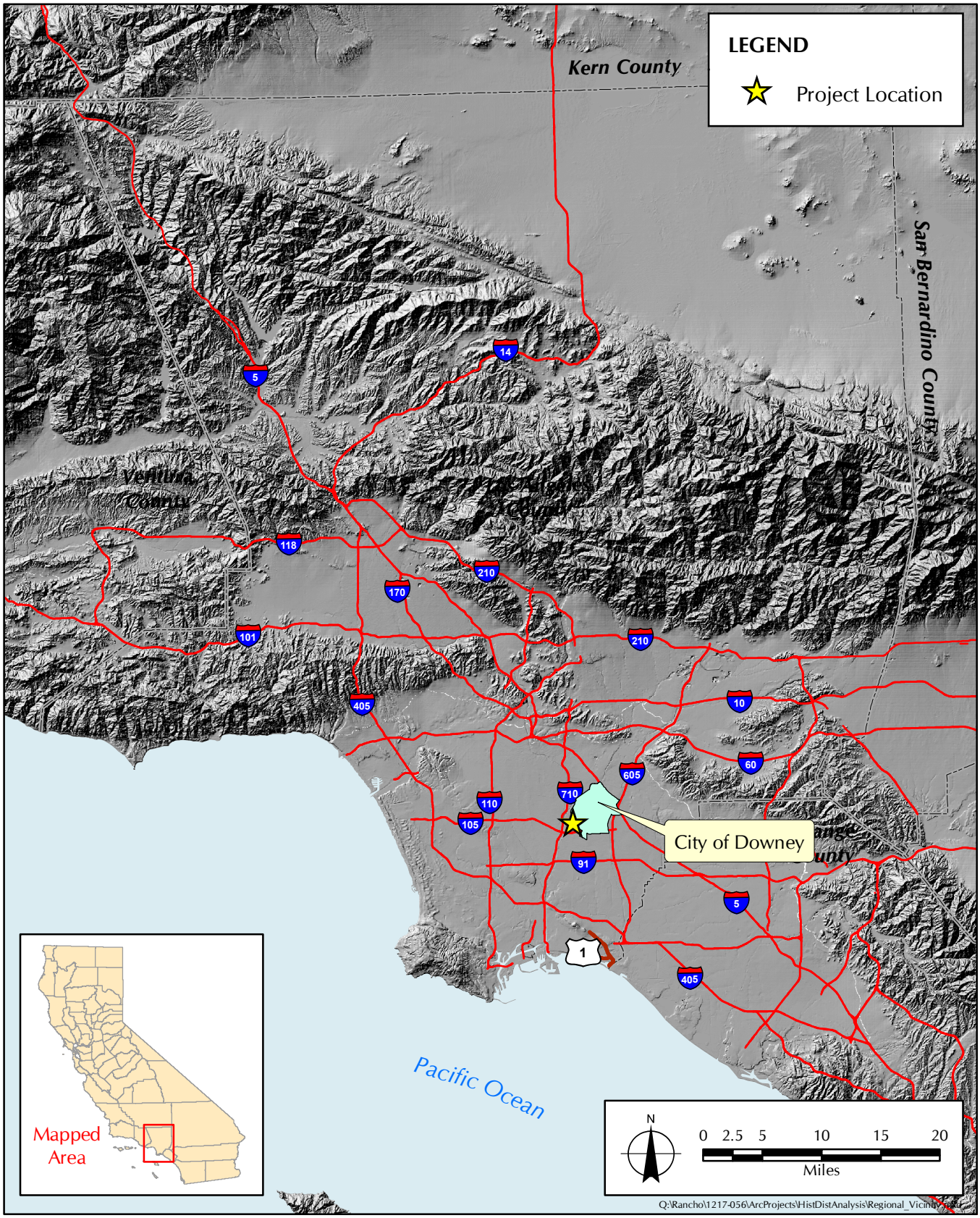


FIGURE 1.2-1
Regional Vicinity Map

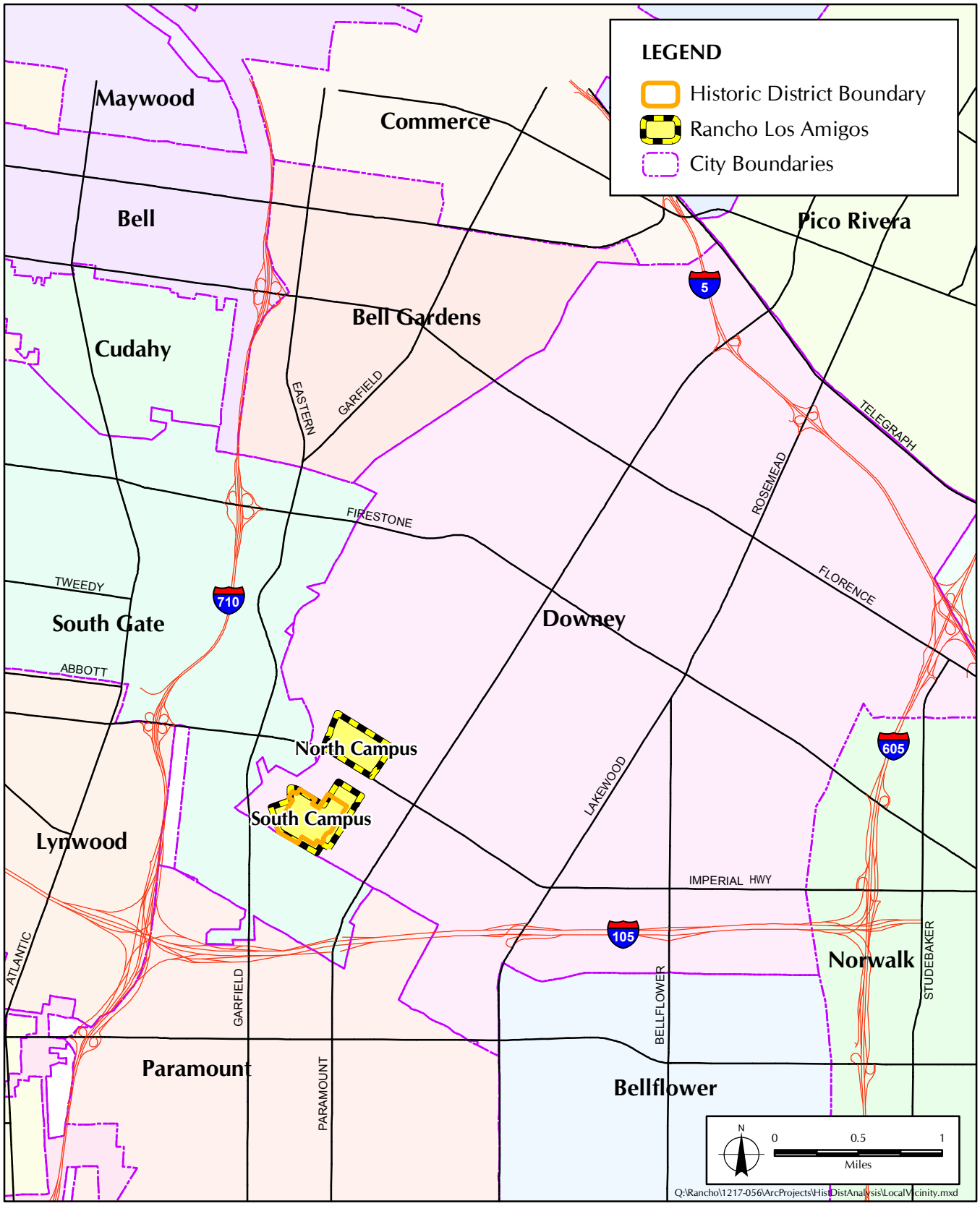


FIGURE 1.2-2
Local Vicinity



FIGURE 1.2-3
Historic District

quadrangle, within the southwestern portion of the Santa Gertrudes (McFarland and Downey) Land Grant Boundary.[7]

1.3 PREVIOUS INVESTIGATIONS

The two previous historic resources surveys of the Rancho Los Amigos South Campus are summarized in this section. Specific results of these surveys are itemized in Section 5, Results, and compared to the results of the current survey.

1.3.1 1995 Survey

In 1995, the first historic resources evaluation of the Rancho Los Amigos South Campus was conducted within the context of a survey of earthquake-damaged properties in compliance with Section 106 of the National Historic Preservation Act.[8] Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The survey of the Rancho Los Amigos South Campus was apparently triggered by the involvement of the Federal Emergency Management Agency (FEMA) in the wake of the 1994 Northridge Earthquake. The Rancho Los Amigos South Campus was recorded on a State of California Department of Parks and Recreation Primary Record (DPR 523A) and evaluated on a District Record (DPR 523F), both of which are dated July 26, 1995. The survey and evaluation were performed by Christy Johnson McAvoy of HRG, who was designated as Acting State Historic Preservation Officer for undertakings related to the 1994 Northridge Earthquake.

As a result of the 1995 survey, the Rancho Los Amigos South Campus was officially determined to be eligible for listing in the NRHP as a district. The DPR forms prepared in support of the 1995 survey indicated that 103 buildings, structures, and features were identified within the boundaries of the District. Of the 103, 78 were found to be contributors to the District, 22 were identified as noncontributors, 2 were not surveyed, and 1 was no longer extant at the time of the survey[9,10] (Figure 1.3.1-1, *1995 Historic District Survey Results*). As a result of the 1995 survey, on September 30, 1996, the Rancho Los Amigos Medical Center Historic District was officially determined to be eligible for listing in the NRHP under Criterion A, association with events that have made a significant contribution to the broad patterns of history, with a period of significance of 1888 through 1945. As a result of the determination of NRHP eligibility, the District and its contributing buildings, structures, and features were automatically listed in the California Register of Historical Resources (CRHR).[11]

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[7] U.S. Geological Survey. Photo revised 1981 (1964). *7.5-Minute Series, South Gate, California, Topographic Quadrangle*. Reston, VA.

[8] *National Historic Preservation Act*, 16 United States Code 470 and 36 Code of Federal Regulations, Part 800.

[9] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

[10] The DPR specified that 102 buildings were surveyed, of which, 76 were contributors to the District, 23 were noncontributors to the District, 2 were not surveyed, and 1 was demolished. Upon examination of the document, Sapphos Environmental, Inc. found discrepancies with these numbers and recounted, resulting in the totals specified in this document.

[11] *California Public Resources Code*, Division 5, Chapter 1, Article 2, Historical Resources, Section 5024.1(d)(1).



FIGURE 1.3.1-1
1995 Historic District Survey Results

1.3.2 2004 Survey

In 2004, Post/Hazeltine Associates resurveyed the Rancho Los Amigos South Campus and presented its findings in its report, *Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California*.[12] The Post/Hazeltine Associates report concluded that the previously identified District, as well as many of its contributors, did not retain sufficient integrity to be eligible for listing in either the NRHP or the CRHR. The study identified 11 buildings, structures, and features as being potentially eligible for individual listing in both registers under Criterion C (NRHP) and Criterion 3 (CRHR), for embodiment of the distinctive characteristics of a type, period, or method of construction, with a period of significance of 1887 through 1950[13] (Figure 1.3.2-1, *2004 Survey Results*).

Despite the contradictory results found in the 2004 survey, the 1995 survey was a formal, determination of eligibility that was based on consensus between the Office of Historic Preservation and FEMA. A reversal or change of determination requires official applications to the State Historical Resources Commission and to the Keeper of the National Register, National Park Service. The 2004 Post/Hazeltine Associates report was never finalized, and no action has been undertaken to amend or withdraw the CRHR listing of the District. Therefore, the District and the associated buildings, structures, and features identified as contributors to the District are considered to be historic properties pursuant to the NHPA and historical resources pursuant to the California Environmental Quality Act (CEQA).

[12] Post/Hazeltine Associates. 19 March 2004. *Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California*. Santa Barbara, CA. Prepared for: County of Los Angeles.

[13] Conclusions for the 2004 Post/Hazeltine Associates report were taken from the DPR forms attached to the report and not from the survey report, which contains numerous inconsistencies.

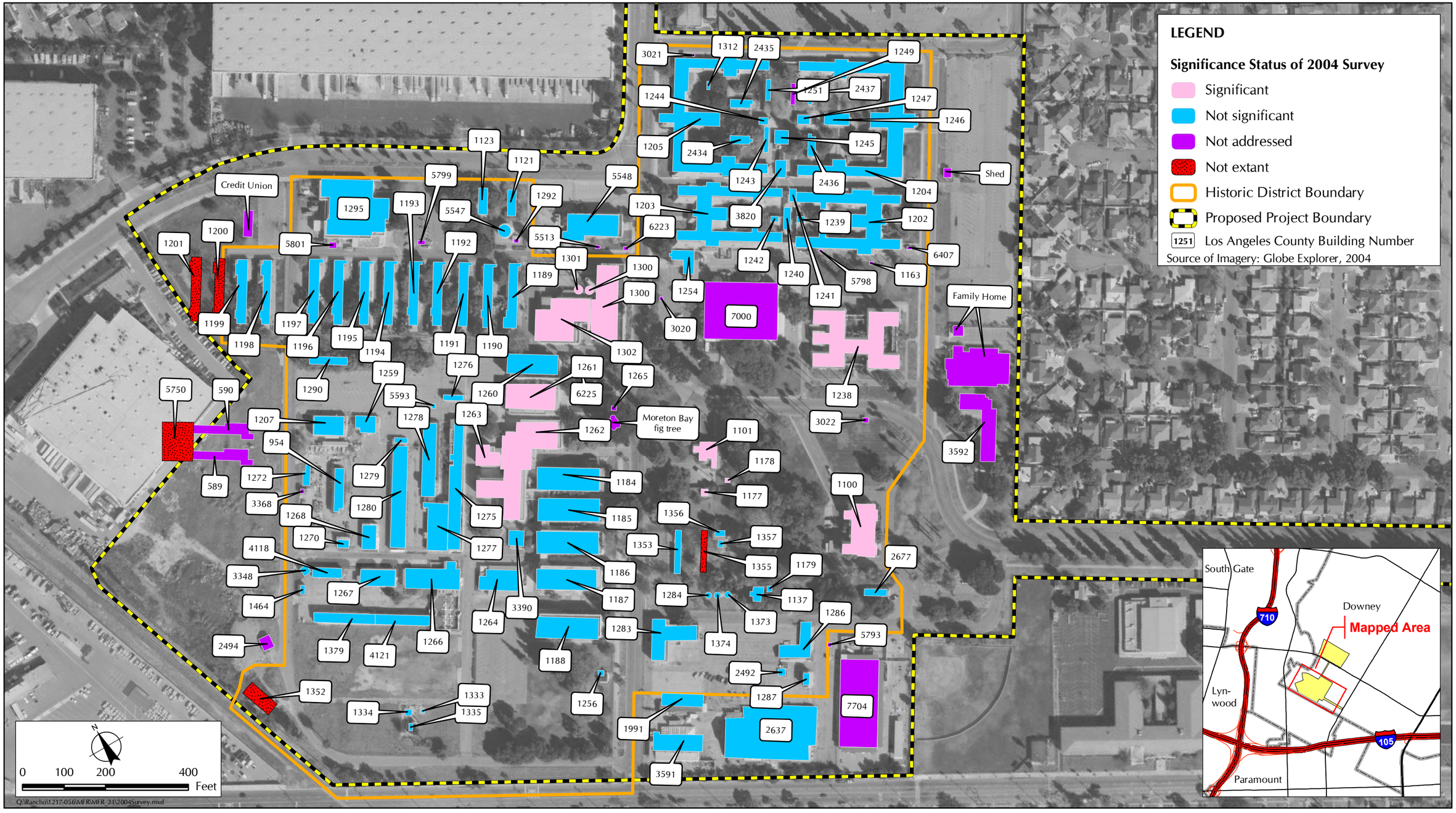


FIGURE 1.3.2-1
2004 Survey Results

SECTION 2.0
SURVEY METHODOLOGY

This section of the Historic District Update Report describes the methods employed in the characterization and evaluation of historic resources at the proposed project site. The study methods were designed to conform to accepted historic resources survey practices and protocols, specifically:

- Secretary of the Interior's Standards for Preservation Planning
- National Register Bulletin (No. 24): Guidelines for Local Surveys: A Basis for Preservation Planning
- National Register Bulletin (No. 15): How to Apply the National Register Criteria for Evaluation
- Office of Historic Preservation, Instructions for Recording Historical Resources
- Office of Historic Preservation, Technical Assistance Bulleting #8, User's Guide to the California Historical Resources Status Codes

2.1 RECORD SEARCH, LITERATURE REVIEW, AND RESEARCH

Preparation of this report began with a thorough review of the two previous studies described in Section 1, Introduction, and consultation with the Office of Historic Preservation (OHP) to confirm the official status of the District.[14] In addition, a record search was performed at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton, one of the 11 independent centers operated under contract to OHP for the purpose of maintaining records associated with the federally and state-mandated California Historic Resources Inventory (HRI). This search included a review of all known relevant cultural resource surveys and reports and examination of the 2009 editions of the HRI,[15] including listings in the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), California Historical Landmarks (CHL), and California Points of Historical Interest (CPHI). The narrative history of the Rancho Los Amigos National Rehabilitation Center prepared by Colleen Adair Fliedner *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, provided the most complete account of the development of Rancho Los Amigos.

Archival research was completed between August 2007 and December 2010. Research in primary resources included extensive use of the Papers of the Rancho Los Amigos Hospital, part of the California Social Welfare Archives, housed at the Doheny Library, University of Southern California. Materials examined included narrative histories, historic photographs, aerial photographs, blueprints, historic maps, and annual reports. It was also determined that full and partial sets of as-designed or as-built drawings were on file at the County of Los Angeles Rancho Los Amigos Facilities Management Department for 30 buildings (the Patient Wards [LACO Nos. 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, and 1199]; the Kitchen and Dining Building [LACO No. 1295]; the Power Plant [LACO No. 1300]; the Water Tower [LACO No. 1301]; the Shop, Laundry and Ice Plant [LACO No. 1302]; the Administration/Safety Police Building [LACO No. 1100]; Casa Consuelo [LACO No. 1238]; Auditorium [LACO No. 1261];

[14] California Office of Historic Preservation. 24 February 2006. Historic Property File Single Property Printout, Rancho Los Amigos Medical Center. On file at Sapphos Environmental, Inc., Pasadena, CA.

[15] California Office of Historic Preservation. 2007. *California Historical Resources Inventory, 2004*. Fullerton, CA: California State University, Department of Anthropology, South Central Coastal Information Center.

Dining Room, Kitchen, and Staff Room [LACO No. 1262]; the Commissary and Receiving Room [LACO No. 1263]; the General Wards [LACO Nos. 1184, 1185, 1186, 1187, and 1188]; the Women's Psychiatric Wards [LACO Nos. 1202 and 1203]; and the Men's Psychiatric Wards [LACO Nos. 1204 and 1205]).

Other sources consulted included historic issues of the *Los Angeles Times* and *Downey Livewire* newspapers, accessed online through the ProQuest newspaper database; historical aerial maps and photographs at Rancho Los Amigos; and the collections of the Los Angeles and Downey Public Libraries and the Downey History Center. Materials compiled in support of a concurrent investigation by Sapphos Environmental, Inc., the *Rancho Los Amigos Historic District Feasibility Study* (Sapphos Environmental, Inc., September 16, 2009) including current measured drawings and architectural and structural conditions assessments, also were used. Sources of relevant information are cited in footnotes and compiled in the References section of this document.

Using the information obtained through the research effort, a historic overview and context was prepared (Section 4, Historic Overview and Context). The purpose of the narrative was to clarify the history of the District and identify the important historical themes that it represents. The context provided a framework for reconsidering the period of significance associated with the District and assessing the current significance of individual District contributors.

2.2 FIELD SURVEY

A pedestrian survey of the District was performed between December 2006 and October 2007 to update the two previous historic resources surveys of the Rancho Los Amigos South Campus. Specifically, the goals of the field survey were to photograph the current condition and assess the integrity of District contributors; document character-defining features; and confirm the boundaries of the District. The field survey included both exterior and interior inspections. In addition, buildings and structures within the District boundaries that had not been previously surveyed were addressed. Updated resource descriptions were prepared and entered on State of California Department of Parks and Recreation Historic Resources Inventory update forms (form DPR 523L, Continuation Sheet).

2.3 EVALUATION

Using the results of the research, field inspection, and historic context theme identification, buildings, structures, and features within the District were studied to determine if re-evaluation was warranted. Particular attention was paid to identifying resources whose historic integrity had changed in the years following the official determination of eligibility. NRHP and CRHR criteria of significance (see Section 3, Regulatory Framework) were considered. The City of Downey does not have codified criteria of significance to evaluate potential historical resources.

Although all resources formally determined eligible for inclusion in the NRHP and listed in the CRHR are treated equally under applicable statutes and regulations, for purposes of comparative analysis to determine feasibility for rehabilitation, a historical ranking system was developed. The rankings indicate how critical each building or structure is to the identity and significance of the Rancho Los Amigos Historic District. "Highest" rankings reflect buildings and structures that appear to be eligible for the NRHP individually, as well as being formally identified as contributors to the District. "Key" rankings reflect buildings and structures that, while not appearing individually eligible, are substantive district contributors. "Medium" rankings reflect a District contributor of lesser interest and prominence. "Low" rankings reflect buildings and structures that while

contributing to the District by virtue of their age, location, and original function are generally support structures of utilitarian appearance. The rankings reflect consideration of six factors:

- Historic associations and functions of the building or structure and its relevance to the mission of Rancho Los Amigos as it evolved over time
- Architectural character and quality
- Uniqueness
- Date of construction and period of significance
- Integrity of design
- Location and visual prominence

2.4 PERSONNEL

Sapphos Environmental, Inc. historic resources manager, Ms. Leslie Heumann, supervised the work effort. Ms. Shannon Carmack and Ms. Rebecca Silva prepared the architectural history and historical resources sections of this report. Ms. Deborah Howell-Ardila assisted with research and project coordination. Ms. Laura Carias and Ms. Marlise Fratinardo prepared the Historic Resources Inventory forms. All members of the project team meet the Secretary of the Interior's Professional Qualification Standards for Architectural History.

SECTION 3.0
CRITERIA FOR EVALUATION

Historic resources at Rancho Los Amigos were evaluated under two established sets of criteria of significance, corresponding to federal and state designation programs. To be eligible for inclusion in the National Register of Historic Places (NRHP) or the California Register of Historical Resources (CRHR), a property must satisfy one or more of the appropriate registration criteria. In addition, the property must retain sufficient integrity to convey the reasons for its significance. This section of the Historic District Update Report presents the criteria of significance for each program and compares the respective integrity requirements. A brief discussion of other designation programs is also included. Neither the County of Los Angeles nor the City of Downey has mechanisms with associated criteria for designation of historic resources.

3.1 NATIONAL REGISTER OF HISTORIC PLACES

The NRHP was established by the National Historic Preservation Act (NHPA) of 1966 as "an authoritative guide to be used by federal, state, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[16] The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. Districts, sites, buildings, structures, and objects of potential significance also must possess integrity of location, design, setting, materials, workmanship, feeling, and association. A property is eligible for the NRHP if it is significant under one or more of four established criteria:[17]

Criterion A: It is associated with events that have made a significant contribution to the broad patterns of our history;

Criterion B: It is associated with the lives of persons who are significant in our past;

Criterion C: It embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; and/or

Criterion D: It has yielded, or may likely yield, information important in prehistory or history.

Ordinarily, cemeteries, birthplaces, or graves of historic figures; properties owned by religious institutions or used for religious purposes; structures that have been moved from their original locations; reconstructed historic buildings; properties that are primarily commemorative in nature; and properties that have achieved significance within the past 50 years are not considered to be

[16] U.S. Government Printing Office. "Effects of Listing under Federal Law." *Code of Federal Regulations*, Title 36, Part 60.2. Washington, DC.

[17] U.S. Government Printing Office. "Criteria for Evaluation." *Code of Federal Regulations*. Title 36, Part 60.4. Washington, DC.

eligible for the NRHP. However, such properties will qualify if they are integral parts of districts that do meet the criteria or if they fall within the following categories:[18]

Criteria Consideration A:	A religious property deriving primary significance from architectural or artistic distinction or historical importance; or
Criteria Consideration B:	A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or
Criteria Consideration C:	A birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or building directly associated with his or her productive life; or
Criteria Consideration D:	A cemetery that derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or
Criteria Consideration E:	A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or
Criteria Consideration F:	A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance; or
Criteria Consideration G:	A property achieving significance within the past 50 years if it is of exceptional importance.

For purposes of NRHP nomination, definitions of the types of significant properties that may be listed have been developed[19] and have been generally accepted for many designation programs at all levels of government:

- A **building**, such as a house, barn, church, hotel, or similar construction, is created principally to shelter any form of human activity.

- **Structure** is used to distinguish from buildings those functional constructions made usually for purposes other than creating human shelter (e.g., aviary, bridge, fence, gazebo, windmill).

[18] U.S. Government Printing Office. "Criteria for Evaluation." *Code of Federal Regulations*. Title 36, Part 60.4. Washington, DC.

[19] U.S. Department of the Interior National Park Service. 1990; revised 1997. *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation*.

- **Object** is used to distinguish from buildings and structures those constructions that are primarily artistic in nature or are relatively small in scale and simply constructed. Although it may be, by nature or design, movable, an object is associated with a specific setting or environment. Examples include fountains, monuments, boundary markers, and sculptures.

- A **site** is the location of a significant event, a prehistoric or historic occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possesses historic, cultural, or archaeological value regardless of the value of any existing structure. Examples of prehistoric sites include ceremonial sites, habitation sites, petroglyphs, and so on. Examples of historic sites in battlefields, ruins of building or structure, or cemeteries significant for information potential or historic association.

- A **district** possesses a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development. A district derives its importance from being a unified entity, even though it is often composed of a wide variety of resources. The identity of a district results from the interrelationship of its resources, which can convey a visual sense of the overall historic environment or be an arrangement of historically or functionally related properties.

Most buildings, structures, objects, non-archaeological sites, and historic era districts are evaluated under Criteria A through C, while Criterion D is applied generally to archaeological resources.

3.2 CALIFORNIA REGISTER OF HISTORICAL RESOURCES

Created in 1992 and implemented in 1998, CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change."[20] Certain properties, including those listed in or formally determined eligible for listing in the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included in the CRHR. Other properties recognized under the California Points of Historical Interest program, identified as significant in historical resources surveys or designated by local landmarks programs, may be nominated for inclusion in the CRHR. A resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:[21]

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

Criterion 2: It is associated with the lives of persons important in our past.

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of an important creative individual; or possesses high artistic values.

[20] *California Public Resources Code*, Division 5, Chapter 1, Article 2, Historical Resources, Section 5024.1(a).

[21] *California Public Resources Code*, Division 5, Chapter 1, Article 2, Historical Resources, Section 5024.1(c).

Criterion 4: It has yielded, or may be likely yield, information important in history or prehistory.

Resources nominated to the CRHR must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance.[22] It is possible that a resource whose integrity does not satisfy NRHP criteria still may be eligible for listing in the CRHR. Similarly, resources that have achieved significance within the past 50 years may be eligible for inclusion in the CRHR if enough time has lapsed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance.

Similar to the NRHP criteria, most buildings, structures, objects, nonarchaeological sites, and districts are evaluated under Criteria 1 through 3, while Criterion 4 is generally applied to archaeological resources.

3.3 INTEGRITY

Historic properties either retain integrity (i.e., convey their significance) or not. To retain historic integrity, a property must always possess several, and usually most, of the seven aspects of integrity described below. The retention of specific aspects of integrity is paramount for a property to convey its significance. Determining which of these aspects are most important to a particular property requires knowing why, where, and when the property is significant.

3.3.1 National Register of Historic Places

The NRHP defines integrity as "the ability of a property to convey its significance."[23] For a property to be listed in the NRHP, it must not only qualify under at least one of the appropriate evaluation criteria but also retain integrity. Understanding a property type's character-defining features and their relationship to its significance is paramount when evaluating a resource's integrity.

There are seven aspects of integrity:

1. **Location** is the place where the historic property was constructed or the place where the historic event occurred. The actual location of a historic property, complemented by its setting, is particularly important in recapturing the sense of historic events and persons.

2. **Design** is the combination of elements that create the form, plan, space, structure, and style of a property. The design results from decisions made during the original conception and planning of a property (or its significant alteration) and applies to activities as diverse as community planning, engineering, architecture, and landscape architecture.

[22] California Office of Historic Preservation. 14 March 2006. "California Register and National Register: A Comparison (for Purposes of Determining Eligibility for the California Register)." *Technical Assistance Series*, No. 6. Sacramento, CA. Available at: http://ohp.parks.ca.gov/pages/1056/files/06CalReg&NatReg_090606.pdf

[23] U.S. Department of the Interior, National Park Service. Revised 2002. "How to Apply the National Register Criteria for Evaluation." *National Register Bulletin*, No. 15. Washington, DC, p. 44.

3. **Setting** is the physical environment of a historic property. It refers to the character of the place in which the property played its historic role. It involves how, not just where, the property is situated and its relationship to surrounding features and open space.

4. **Materials** are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

5. **Workmanship** is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.

6. **Feeling** is a property's expression of the aesthetic or historic sense of a particular period of time. It results from the presence of physical features that, taken together, convey the property's historic character. Because feeling and association depend on individual perceptions, their retention alone is never sufficient to support eligibility of a property for the NRHP.

7. **Association** is the direct link between an important historic event or person and a historic property. A property retains association if it is the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer. Like feeling, association requires the presence of physical features that convey a property's historic character. Because feeling and association depend on individual perceptions, their retention alone is never sufficient to support eligibility of a property for the NRHP.

Certain aspects of integrity may be more or less important in evaluating a property, depending on the specific criterion of significance. For example, a property that is significant under criterion C for its exemplification of the distinctive characteristics of an architectural style needs to retain a high degree of integrity of design, setting, materials, workmanship, and feeling. On the other hand, a property significant for its association with an important person may not emphasize integrity of design as much as association.

3.3.2 California Register of Historical Resources

The CRHR defines integrity as "the authenticity of an historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance."[24] For a property to be listed in the CRHR, it must not only meet one of the appropriate evaluation criteria but also retain enough of its historic character or appearance to be recognizable as a historical resource and to convey the reasons for its significance.

As with the NRHP, the CRHR evaluates integrity with regard to the seven aspects of location, design, setting, materials, workmanship, feeling, and association. For listing in the CRHR, integrity must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Historical resources that have been rehabilitated or restored may be evaluated for listing.

[24] California Office of Historic Preservation. 14 March 2006. "California Register and National Register: A Comparison (for Purposes of Determining Eligibility for the California Register)." *Technical Assistance Series*, No. 6. Sacramento, CA. Available at: http://ohp.parks.ca.gov/pages/1056/files/06CalReg&NatReg_090606.pdf

Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance.

3.4 OTHER STATE DESIGNATION PROGRAMS

3.4.1 California Historical Landmarks[25]

California Historical Landmarks are buildings, structures, sites, or places that have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value and that have been determined to have statewide historical significance by meeting at least one of the criteria listed below. The resource also must be approved for designation by the County Board of Supervisors or be recommended by the State Historical Resources Commission, and be officially designated by the Director of California State Parks. The specific standards now in use first were applied in the designation of CHL 770. CHLs 770 and above are automatically listed in the CRHR.

To be eligible for designation as a *landmark*, a resource must meet at least one of the following criteria:

- Be the first, last, only, or most significant of its type in the state or within a large geographic region (Northern, Central, or Southern California)
- Be associated with an individual or group having a profound influence on the history of California
- Be a prototype of, or an outstanding example of, a period, style, architectural movement, or construction, or be one of the more notable works or the best surviving work in a region of a pioneer architect, designer, or master builder

3.4.2 California Points of Historical Interest[26]

California Points of Historical Interest are sites, buildings, features, or events that are of local (city or county) significance and have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value. Points of Historical Interest designated after December 1997 and recommended by the State Historical Resources Commission also are listed in the CRHR. No historical resource may be designated as both a landmark and a point. If a point is subsequently granted status as a landmark, the point designation will be retired.

To be eligible for designation as a Point of Historical Interest, a resource must meet at least one of the following criteria:

- Be the first, last, only, or most significant of its type within the local geographic region (city or county)

[25] Office of Historic Preservation. Accessed 17 July 2006. "California Historical Landmarks Registration Program." Available at: http://ohp.parks.ca.gov

[26] Office of Historic Preservation. Accessed 17 July 2006. "California Points of Historical Interest, Registrations Programs." Available at: http://ohp.parks.ca.gov

- Be associated with an individual or group having a profound influence on the history of the local area

- Be a prototype of, or an outstanding example of, a period, style, architectural movement, or construction, or be one of the more notable works or the best surviving work in the local region of a pioneer architect, designer, or master builder

SECTION 4.0
HISTORIC OVERVIEW AND CONTEXT

4.1 CHRONOLOGICAL HISTORY

4.1.1 Regional Early History

The historic period in California as a whole began with the arrival of Spanish navigator Juan Rodriguez Cabrillo and his party, who anchored in San Diego Bay on September 28, 1542. The area comprising present-day Los Angeles County was first explored by Europeans in 1769 when Gaspar de Portola and a group of missionaries camped on what are now the banks of the Los Angeles River. They named the area "Nuestra Senora de Los Angeles de la Porciuncula" (Our Lady the Queen of the Angels of Porciuncula). The first settlement was established in 1771 with the founding of Mission San Gabriel Arcangel by Father Junipero Serra and a party of Spaniards. Ten years later, the Pobladores, a group of 11 families recruited from Mexico by Captain Rivera y Moncada, traveled from the San Gabriel Mission to a spot selected by Alta California Governor Felipe de Neve to establish a new pueblo. The settlement was named El Pueblo de la Reina de Los Angeles (The Pueblo of the Queen of the Angels. Over time, the area became known as the Ciudad de Los Angeles, "City of Angels."[27]

During Spanish rule, from 1781 to 1824, two dozen land grants were made, primarily as compensation to soldiers upon their retirement. In 1784, the Spanish granted 300,000 acres of land (later reduced to 150,000), stretching from the San Gabriel River to the Santa Ana River and encompassing the area later developed as the Los Angeles County Poor Farm, to Jose Manuel Nieto. A former soldier who had served at the San Diego presidio, Nieto was a member of the 1769 Serra-Portola expedition, led by military leader Gaspar de Portola and Franciscan priest Junipero Serra meant to establish the mission system (and with it Christianity) in Alta California. After his death, Nieto's land holdings were divided into smaller ranchos among his heirs, becoming Rancho Los Alamitos, Las Bolsas, Los Cerritos, Los Coyotes, and Santa Gertrudes. In 1821, Mexico gained independence from Spain and subsequently assumed rule over Alta California. The 1834 secularization of the mission system and distribution of its holdings dramatically shifted the character of land ownership in Southern California. Mission secularization in 1833 and the beginning of a highly profitable trade in cattle hide and tallow exports opened the way for an increase in the number of commercially driven farms. During Mexican rule of California, from 1821 to 1848, land owned by the Spanish crown and clergy was distributed in over 800 land grants, passing mostly to Mexican settlers born in California, or *Californios*.[28]

With the signing of the Treaty of Guadalupe Hidalgo in 1848, the U.S.–Mexican War formally ended. California was annexed to the United States. After gaining statehood in 1850, California's legal and political system was transformed, setting in motion a series of changes that began to erode the rancho system. The introduction of property taxes proved onerous for many Southern California ranchers, given the size of their holdings.[29] In addition, the 1851 creation of the U.S. Land Commission required that property owners prove the validity of their property titles, many of which had been granted relatively informally and without the benefit of formal survey. Because

[27] County of Los Angeles. Available at: http://lacounty.info/history.htm

[28] Poole, Jean Bruce. 2002. *El Pueblo: The Historic Heart of Los Angeles*. Los Angeles, CA: Getty Publications, p. 13.

[29] Fogelson, Robert M. 1967. *The Fragmented Metropolis: Los Angeles, 1850–1930*. Cambridge, MA: Harvard University Press, p. 9.

appeals were allowed (but were usually prolonged affairs), property ownership disputes were resolved via expensive litigation proceedings. Ranchers often paid legal debts with portions—or all—of their ranchos; during this period, 40 percent of rancho-held lands in the County of Los Angeles passed to the U.S. government.[30],31 However some ranchos, such as Rancho Santa Gertrudes, were purchased by private individuals who understood that the Rancho era had come to an end, and purchased a large rancho property for the purpose of dividing into smaller farm sites.

4.1.2 Rancho Santa Gertrudes and the City of Downey

Originally, Rancho Santa Gertrudes, which included the present-day cities of Downey and Santa Fe Springs, was awarded to Antonio María Nieto following the death of Jose Manuel Nieto. In 1834, Nieto's claim to Rancho Santa Gertrudes (by then in the hands of his widow Josefa Cota de Nieto) was confirmed by the Mexican government. Nieto's widow subsequently sold the rancho to Kentuckian Lemuel Carpenter, a soap maker who had married her niece, Maria de los Angeles Dominguez.[32] For four years, Carpenter and his wife and family enjoyed the lifestyle of a large land-holding Don. After the signing of the Treaty of Guadalupe Hidalgo in 1848, Carpenter's loyalty to the United States and his land holdings were questioned. When his attempt to maintain his property by seeking credit was unsuccessful, he sold a portion of his land holdings to José Ramirez in 1855, as well as to other individuals, realizing it was becoming too difficult to repay his creditors.[33] In 1859, apparently due to overwhelming debts, Carpenter committed suicide causing Rancho Santa Gertrudes to be auctioned off by the local sheriff. The property was purchased for $60,000 by successful Los Angeles drug store owner and a founder of the Los Angeles Farmers and Merchants Bank, John Gately Downey, and his partner James P. McFarland.[34] Downey was elected Lieutenant-Governor of California in 1859, but ending up becoming governor instead in January 1860. He placed any plans for the rancho on hold until after his term as governor ended in 1862. He allowed the Carpenter heirs to live on the land for many years.[35]

Downey and McFarland eventually subdivided Rancho Santa Gertrudes and sold plots of land, most of which were developed for agricultural uses. A section of the land located between the Rio Hondo and the San Gabriel River was named after Downey, and established as a town in 1873. The property was called the "Tract of the Downey Land Association" according to tax assessor records. This land, consisting of 96 acres, was valued at $2,940 with improvements of $330.[36] Located approximately 10 miles east of the Pacific Ocean and just southeast of downtown Los Angeles, Downey quickly became an important settlement within the County of Los Angeles.

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[30] Nadeau, Remi. 1960. *Los Angeles, from Mission to Modern City*. New York: Longmans, Green, and Co., pp. 46–49.

[31] See also Fogelson, Robert M. 1967. *The Fragmented Metropolis: Los Angeles, 1850–1930*. Cambridge, MA: Harvard University Press, pp. 13–14.

[32] Hoover, Mildred Brooke, Hero Eugene Rensch, Ethel Grace Rensch, William N. Abeloe; revised by Douglas E. Kyle. 2002. *Historic Spots in California* Fifth edition. Stanford, CA: Stanford University Press, p. 157.

[33] Hoover, Mildred Brooke, Hero Eugene Rensch, Ethel Grace Rensch, William N. Abeloe; revised by Douglas E. Kyle. 2002. *Historic Spots in California* Fifth edition. Stanford, CA: Stanford University Press, pp. 157–158.

[34] Quinn, Charles Russell. 1973. *The History of Downey, California. Downey*, CA: Elena Quinn Publishers, p. 22.

[35] Quinn, Charles Russell. 1973. *The History of Downey, California*. Downey, CA: Elena Quinn Publishers, p. 30.

[36] City of Downey. Available at: http://www.downeyca.org/city_about.php#railroad

In 1888, a depot was constructed and soon the Southern Pacific Railroad began bringing settlers and visitors to the new community. Much of the city's pattern of development was determined by the railroad. The construction of the Christian Church on the corner of Fourth and New Streets marked the beginning of Downey's downtown. As the town began to grow over the next decade, 300 homes were constructed as well as a courthouse, post office, schools, churches, and businesses.[37]

By the 1900s, Downey was an established community featuring a variety of profitable business such as a Sunkist packing plant, a department store, banks, restaurants and mercantile shops. Downey also established its own grammar and high schools. In the following decades, Downey continued to flourish, with the addition of businesses in several important industries, including agriculture and aviation. Residential development expanded continuously throughout the 20th century, particularly in the period following World War II. In 1956, the City of Downey was incorporated.[38]

4.1.3 County of Los Angeles

On February 18, 1850, the year California was admitted to the Union, the County of Los Angeles was established as one of the 27 original counties of the soon-to-be thirty-first state. The people of Los Angeles County elected a three-man Court of Sessions as their first governing body on April 1, 1850. A total of 377 votes were cast in this election. In 1852 the Legislature dissolved the Court of Sessions and created a five-member Board of Supervisors.[39]

After the Civil War ended, there was a large immigration into the Los Angeles area. Several large Mexican ranches were divided into many small farms, and cities such as Compton, Norwalk, San Fernando, Santa Monica, Pasadena, and Downey were founded. Los Angeles also experienced a large boom in population and development with the completion of the Southern Pacific Railroad route from San Francisco in 1876 and its subsequent links to the southeast, followed by the arrival of the Santa Fe Railroad, which reached Los Angeles 1n 1887. Tourism was promoted and new towns were planned to attract investors, to raise land values, and to increase the value of railroad shipments and holdings. The Southern California citrus industry flourished at this time, able to reach national markets quickly due to the availability of the rail lines. The Los Angeles population increased from approximately 11,000 in 1880 to approximately 60,000 in 1890.[40]

4.1.4 County Poor Farm Beginnings: 1887/1888–1907

Begun in 1887/1888 as the new County Poor Farm, Rancho Los Amigos upon its inception was an agricultural facility that provided work, housing, and medical care for the indigent. The original purchase of 124.4 acres in the vicinity of the town of Downey was graded for roads and supplied with water from an artesian well. In addition, the Los Angeles County Board of Supervisors reviewed plans from architects for the first buildings planned for the campus. In 1888, the Board of Supervisors awarded the contract to design the layout of the new Poor Farm to the preeminent Los Angeles architectural firm of the time, Kysor, Morgan, and Walls.[41] Ezra F. Kysor (1835–1907),

[37] City of Downey. Available at: http://www.downeyca.org/city_about.php#railroad

[38] City of Downey Planning Department. Adopted 25 March 2005. *Downey Vision 2025 General Plan*. Available at: http://www.downeyca.org/city_planning_gp.php

[39] County of Los Angeles. Available at: http://lacounty.info/history.htm

[40] County of Los Angeles. Available at: http://lacounty.info/history.htm

[41] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los

Octavius Morgan (1850–1922), and John A. Walls (1858–1922) were individually and collectively responsible for the architecture of many of the most notable buildings constructed in the Los Angeles area in the late–19th century, including Pico House in the El Pueblo Historic District (Kysor, 1869/1870), the former St. Vibiana's Cathedral (Kysor, 1871/1876), Hollenbeck Home for the Aged (Morgan and Walls, 1896), and Widney Hall at the University of Southern California (Kysor and Morgan, 1880).[42]

The firm envisioned a U-shaped configuration, with a central courtyard defined by the North (Female) and South (Male) Wards and a central Dining Hall (Refectory) *(*Figure 4.1.4-1*, Original U-Shaped Configuration by Kysor, Morgan, and Walls)*. While the commissions for the two wards were given to Kysor, Morgan, and Walls, the job of designing the Refectory fell to another local architect, Jacob Friedlander. The central courtyard was landscaped with lawns and flower beds. A year later, in 1889, Morgan designed the fourth building on the campus, which was to serve as an office, residence for the physician and superintendent, and laboratory.[43] The completed set of buildings was situated on what is now known as the South Campus, just south of the intersection of today's Erickson Avenue and Descanso Street at the west terminus of Consuelo Street. Three of the buildings were designed in a brick Victorian-era institutional style, were two-stories in height, and measured 45′ × 75′ *(*Figure 4.1.4-2*, Original Administration Building and North and South Wards)*. The fourth building was constructed at a cost of $9,000, and was a simple wood-framed building with Victorian-era detailing.[44] A continuous veranda connected the buildings, and framed a garden courtyard, featuring lawns, a rose garden, and an aviary (Figure 4.1.4-3, *View of Original Courtyard Designed by Kysor, Morgan, and Walls*). The aviary remains the oldest surviving building on the hospital campus and is now located in the northwest section of the interior courtyard of the Men's Psychiatric Ward Complex. The remaining buildings from the original poor farm plan are no longer extant.

By December 1888, the first patients had been transported by wagon to the new facility, and the Board of Supervisors had established the rules and regulations governing the operation of the Los Angeles County Poor Farm.[45,46] The following February, Missouri native and physician Edwin L. Burdick was appointed superintendent and resident physician. Burdick and his wife, Ellen, had relocated to Los Nietos Valley from Kansas City in 1876 in order to enjoy what they regarded to be the more healthful climes of California. Upon his arrival at the Poor Farm, Superintendent Burdick and his family moved into the second floor residential area of the newly constructed Administration Building.

From the beginning, the County's goal was to make the Poor Farm as self-sufficient as possible through the planting of crops and the raising of dairy cows, chickens, and pigs. The inmates at the Poor Farm largely provided the labor for the agricultural efforts, with the assistance of several farm supervisors. Inmates also tended to the numerous trees, lawns, and gardens that decorated the

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Amigos Medical Center, p. 25.

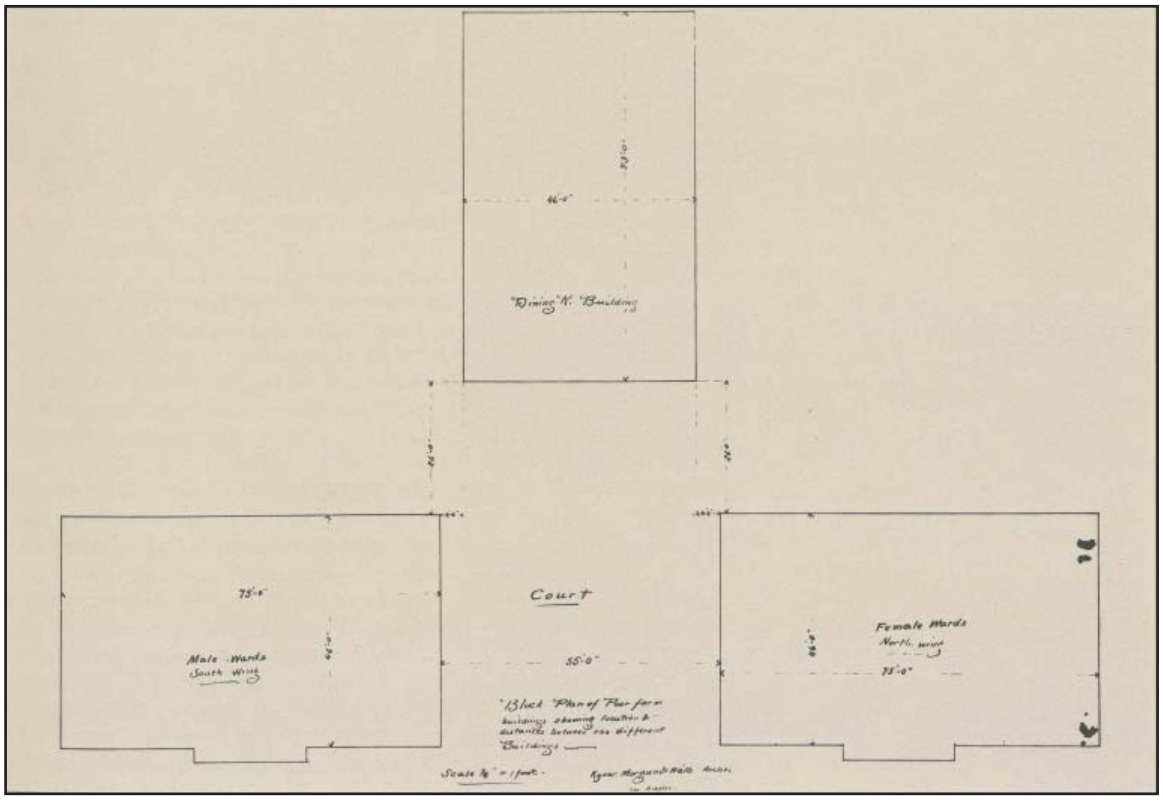
[42] Gebhard, David, and Robert Winter. 2003. *An Architectural Guidebook to Los Angeles*. Rev. Ed. Salt Lake City, UT: Gibbs Smith.

[43] *Los Angeles Times*. 27 February 1889. "The Supervisors," p. 2.

[44] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 24–25.

[45] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 28, 40.

[46] Foster, Henry. 5 October 1959. "History of the Rancho." Los Angeles: University of Southern California Archives. Box 25, Folder 57.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

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FIGURE 4.1.4-1
Original U-Shaped Building Configuration by Kysor, Morgan, and Walls



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988.* Downey, CA

FIGURE 4.1.4-2
Original Administration Building and North and South Wards



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.4-3
View of Original Courtyard Designed by Kysor, Morgan and Walls

farm's landscape. The agricultural program at the Poor Farm became highly successful; throughout the first half of the 20th century, it was nationally recognized in the fields of cultivation and scientific breeding as a successful producer of prized crops and livestock.

During the 1890s, the inmate population of the Poor Farm nearly doubled, from approximately 125 to nearly 200 patients, most of whom were over 60 years of age. Many of those seeking care were manual laborers, originally from other states or countries, who had fallen ill or were injured and lacked a safety net provided by family or financial resources. During this period, the facilities expanded to accommodate the growing patient population and staff. The Refectory was enlarged, and new buildings were constructed, including a bathhouse and laundry building, outdoor toilet facilities, a bunkhouse, barns, and various outbuildings. A freight and passenger depot, operated by the Terminal Railroad Company, was also constructed in the 1890s, with the County paying the Terminal Railroad Company approximately $14 a month to ship milk from the County Farm to the County Hospital in Los Angeles.[47] (Figure 4.1.4-4*, County Poor Farm Depot Operated by the Terminal Railroad Company [No Longer Extant]*). In 1897, a new two-story, 40-bed Women's Ward was constructed adjacent to the Administration Building.

Burdick's tenure as superintendent lasted for 12 years until 1901, when he was forced to resign for health reasons.[48] The expansion and development carried out under Burdick's leadership established the Poor Farm's reputation as an important agricultural producer and haven for the destitute and ill. By 1902, the institution had grown to 227 acres with a total value of $92,046, and the annual net value of agricultural products $5,176.[49,50] After Burdick's departure, the dual roles he held as superintendent and resident physician were split into two separate posts. T.F. Simpson, the Poor Farm steward and bookkeeper became superintendent, and the position of resident physician went to Dr. F.L. Norton, a graduate of the University of Southern California's College of Medicine and Burdick's assistant physician and druggist.

As the Poor Farm continued to expand and develop, the residents and community leaders of Los Angeles County became aware of the farm's achievements. This high profile also brought a greater degree of public scrutiny and comment on facility operations. Initially in the 1900s this public comment was positive. In May 1902, a delegation from the General Federation of Women's Clubs, convening in Southern California, arrived to inspect the County Poor Farm in order to learn about the successful mix of commerce and social welfare services. After a tour of the facilities led by Superintendent Simpson and chairman of the County Board of Supervisors, E.S. Field, the women were quoted commenting on the Poor Farm's combination of "charity and industry . . . in such a manner as to afford recreation and exercise for the inmates, as well as to return more than half the cost of maintenance to the county."[51,52]

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[47] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, p. 35.

[48] *Los Angeles Times*. 13 August 1901. "Political Pie in County Slices: New Regimes at County Hospital and Farm."

[49] *Los Angeles Times*. 1 April 1902. "Grand Jury Reports and Gets Scored: Suggestion for Sitting All Year Displeases Judge Smith—Many Recommendations, No Indictments."

[50] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, p. 49.

[51] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 56–58.

[52] *Los Angeles Times*. 14 June 1891. "The County Farm. Where the Poor of Los Angeles are Cared For," p. 10.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.4-4
County Poor Farm Depot Operated by the Terminal Railroad Company
(No Longer Extant)

However, one year later in 1903, newspapers began reporting on problems at the Poor Farm, including overcrowding of the wards, poor sanitation and maintenance, too few "suitable and sufficient" toilet facilities, and poor oversight of the agricultural operations (which were nonetheless found to be in "good condition" overall).[53] In April 1903, the County Hospital and Farm had a new superintendent and resident physician. After having served only two years, Superintendent Simpson left the post and was replaced by George S. Clarke, who remained as superintendent until January 1907. The resident physician, Norton, left and was replaced by Marshall E. Price.

4.1.5 Poor Farm Faces Problems: 1903–1907

Marshal E. Price was a graduate of Chicago Medical College in Illinois and moved to Los Angeles in the 1890s where he began his private practice. Price was appointed as physician of the Poor Farm on April 1, 1903. At that time, he and his family moved into the third floor of the Administration building. Prior to his arrival, nurses were inmate assistants. Price made the decision to hire a professionally trained nurse, Mr. H.S. Readon, for the day shift and kept the inmate assistants to work as night nurses.[54]

Although early reports about the County Farm praised the institution as pleasant and relaxing, by 1903 inspectors from the State Board of Charities and Corrections stated in their report that the facility was overcrowded, furniture had to be replaced, and that the use of tallow candles for light was a fire hazard. The report also criticized the outdated water closets for their drainage problems (the male patients could only use outdoor toilets) as well as the lack of electricity on the Farm.[55] In spite of the negative publicity, progress continued at the Poor Farm. In 1905, a much-needed water pump was installed. To the relief of the Supervisors, the pump provided more water then needed, allowing the Poor Farm to sell the excess water to neighboring cities rather than pay the excess of $600 to $700 a year in water fees.[56]

By the following year, negativity surrounding the institution resurfaced. Overcrowding at both the County Poor Farm and County Hospital was largely blamed on men that came from outside Los Angeles County to the Farm and Hospital during the winter months looking for relief. These men stayed at the expense of Los Angeles taxpayer's money and were difficult to send away. To alleviate the Poor Farm's financial crisis, a bond issue, which would allocate $70,000 for improvements, was placed on the November 1906 ballot. Although two well-known physicians, Drs. Webster and Cook, tried to help pass the bond by visiting the Poor Farm and writing newspaper articles in support of the issue, it failed. A grand jury visited the institution and urged the County Board of Supervisors to designate funds for the remodeling of the existing wards and the construction of additional ward buildings, as well as a new dining room, kitchen, laundry facility, bathing facilities and modern toilets. The board abided by the jury's suggestion and made necessary upgrades.[57]

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[53] *Los Angeles Times*. 1 April 1903. "County Farm Ripped Out: Wretched Conditions Shown by Grand Jury," p. 14.

[54] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, p. 58.

[55] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 58–59.

[56] *Los Angeles Times*. 31 May 1905. "County Farm's Surplus Water," p. I12.

[57] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 68–69.

4.1.6 Expansion and Progress: 1907–1915

Following the departure of Clarke in 1907, Donald Chick was temporarily appointed superintendent of the County Farm. Superintendent Chick's brief tenure resulted in several important accomplishments, which had lasting effects at the County Poor Farm. He established the landscaping department, constructed the Poor Farm's first chapel, and built the original Psychopathic (now Psychiatric) ward, the first purpose-built hospital building to be erected at the institution.[58]

Constructed in 1907, the original psychiatric ward (LACO No. 1205) housed both male and female mentally impaired patients, who were transferred from the overcrowded Los Angeles County Hospital. The single-story brick building located at the intersection of Erickson Avenue and Golondrinas Street was organized into rows of rooms, each with a window, on either side of a central corridor. The men's section was on the north side of the corridor and the women's was on the south side. The windows were barred and had heavy wire screens, and the doors were kept padlocked. The patients were locked outside of their rooms a few hours each day to get fresh air and sunshine by sitting under shade trees in a fenced yard.

The Psychiatric ward building was enlarged several times, beginning in 1909. The original single-story, rectangular shaped building was expanded to form a U-shape enclosing a courtyard area by the addition of two parallel wings on its north and south elevations. These wings were elongated in 1916 for additional ward space, and a partial second story was added to house the resident attendants. Also at this time, a projecting cafeteria wing was constructed along the center of the east (rear) elevation of the original 1907 building.

After eight months of temporary management under Chick, Superintendent Andrew Wade arrived at the Poor Farm in September 1907. Under Wade's management, conditions at the farm continued to improve. By 1908, the institution had grown to 333 acres, with a value of approximately $200,000. The staff expanded; including nurses, interns and other laborers; and an average of 210 patients remained on the Farm monthly.[59]

Andrew Wade served as the first Postmaster at the Poor Farm in 1908. The Farm at the time had over 200 patients and over 20 staff members and the Postal Service thought the Farm had enough mail to warrant its own post office. Wade received the mail in the Administration Building, sorted it, and made it available for staff and patients to come in and pick it up. Superintendents were generally elected postmasters until 1933 when the amount of mail received required a full-time postmaster to attend to the Poor Farm's post office.[60]

More construction occurred in 1909 under Wade's supervision. Employee housing was added, and the first Power House (LACO 1302) was constructed. The Power House, located on the corner of Hawthorn and Descanso Streets, housed the power plant, new telephone system, ice house, brine

[58] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 62–63.

[59] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 60–61.

[60] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, p. 69.

room, and laundry. The Power House facilities consisted of a boiler room with three boilers and pump pit. A fourth boiler and shallow trenches with pipes were added later.[61]

The Poor Farm began to make a profit off their crops in 1909. One of their most notable and high paying crops were oranges. In April of that year, the Semi-Tropical Fruit Exchange paid over $10,000 for 33 cars of navel oranges, which constituted approximately one-half of the total crop.[62] In May, another $5,000 worth of oranges were sold. Due to its value, the crop was protected from thieves by a high fence. Estimates calculate that this fence saved the County from approximately two carloads worth of stolen oranges that year.[63]

In addition to operating a successful agricultural enterprise, the Poor Farm gradually expanded its role as a County medical facility. By the 1910s, an increasing number of inmates with chronic medical disorders were being admitted to the Poor Farm, prompting administrators to employ a staff of physicians and nurses to treat them. This surge in patients and employees created the impetus to expand the Poor Farm. The resulting development program reflected a critical shift in the mission of the Poor Farm, and marked the early stages of the transition from a rehabilitative care facility for indigents into a hospital to house long-term invalid patients. Also at this time, a Milk House was also added to provide a place to pasteurize the milk produced on the farm.

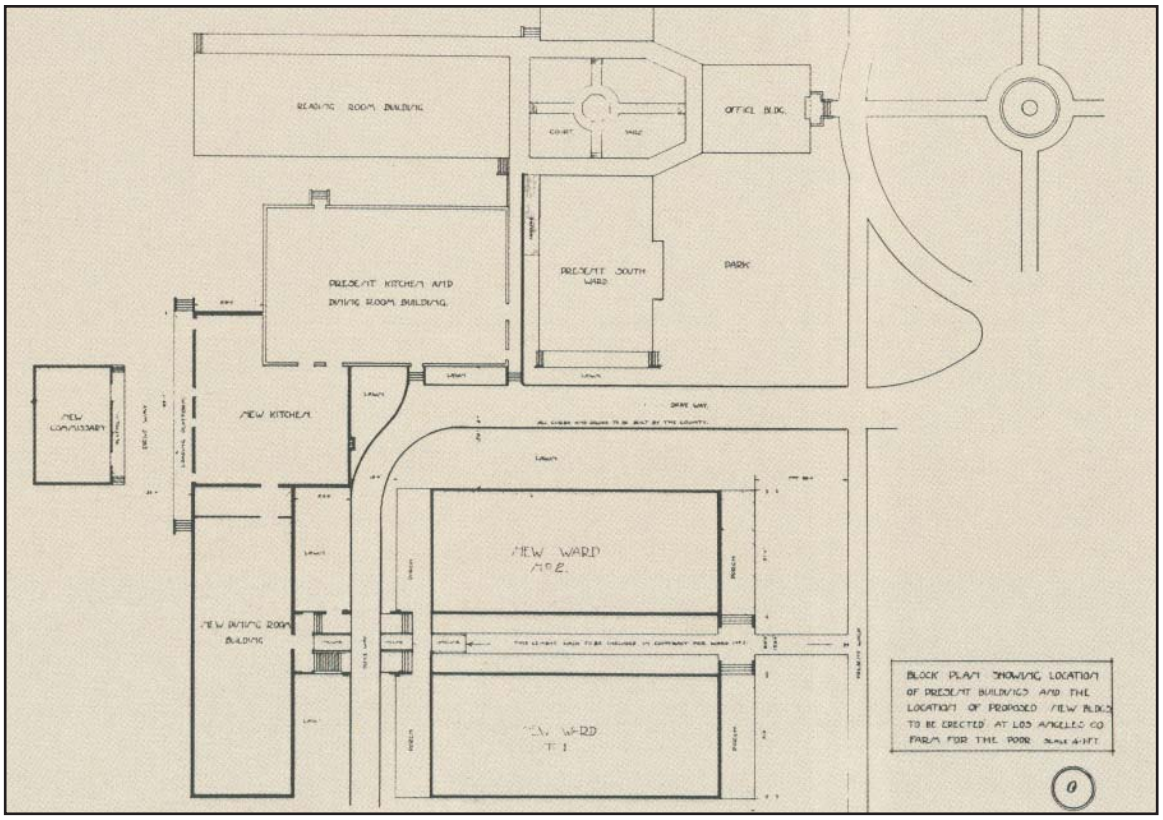
Wade left the Poor Farm in January 1911 and was immediately replaced by Charles C. Manning. Under the management of Superintendent Manning (1911 to 1915), expansion of the County Farm accelerated in response to a dramatic upswing in admittance under his tenure. Between 1911 and 1914, the inmate population increased 280 percent, from 198 to 479. In 1912, Manning requested plans for the first two General Ward Buildings, later called Buildings 30 and 40 (LACO Nos. 1184 and 1185), to be constructed along the west side of Erickson Avenue south of the original Administration Building (no longer extant) (Figure 4.1.6-1*, 1912 Block Plan Depicting Location of the First Two General Ward Buildings [Known as Buildings 30 and 40]*). The buildings were to be connected on their west (or rear) elevations by a one-story hyphen addition that provided a covered walkway and handicapped access between the two buildings. It was necessary to demolish the original pump house building and water tower for the construction of Building 30. A recording device was installed under the new building to continue to record the local water table for the water district (Figure 4.1.6-2*, Northeastern View of the General Ward Buildings Constructed in 1913*).[64] A new large steel water tower and tank (LACO No. 1301) was constructed to the rear of the original powerhouse (LACO No. 1302). Building 30 also housed the first receiving ward for the campus and became known as the Medical Offices and Pharmacy Building. Once the first two General Ward Buildings were completed in 1913, the old North Ward (no longer extant) reverted from a hospital ward back to its original use as a General Ward for male patients. The series of General Ward Buildings that were begun under Manning's direction in 1912 were completed under Harriman's in the late 1920s. Manning left the County Farm in June 1915 and was briefly succeeded by Carl P. Talle.

[61] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 71–72.

[62] *Los Angeles Times*. 20 April 1909. "Poor Farm Riches," p. II14.

[63] *Los Angeles Times*. 3 May 1909. "Fence Saves County Cash," p. I5.

[64] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 74.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988.* Downey, CA

FIGURE 4.1.6-1
1912 Block Plan Depicting Location of the First Two General Ward Buildings (Known as Buildings 30 and 40)



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.6-2
Northeastern View of the General Ward Buildings Constructed in 1913

4.1.7 Harriman Era: 1915–1952

In June 1915, William Ruddy Harriman was appointed the new Superintendent at the County Poor Farm. Harriman promptly moved his family into the new Craftsman residence that had been constructed by Manning at the center of the property (Figure 4.1.7-1*, The Superintendent's House [Also Known as the Harriman House], Constructed in 1915*).[65] When he took over management of the institution, the Poor Farm was providing care to 500 indigent men and women with a staff of 45. With Harriman came a significant change in the direction of the Poor Farm; he is credited with rebuilding the Poor Farm after the damage caused by a devastating flood in 1914. In addition, Harriman drastically improved the property, constructing new buildings, installing an irrigation system, upgrading the utilities, organizing administration duties, and developing the park-like landscape that is still apparent today These improvements were largely accomplished in the wake of a financial surge that followed World War I.

Harriman's first major building effort was the construction of additional General Ward buildings. By 1917, the patient population had reached a new high of over 600, prompting Harriman to construct Building 50, the third General Ward Building (LACO No. 1186), directly south of Building 40. The influx of new patients at the Poor Farm provided the impetus for the expansion of services and facilities needed, resulting in the construction of a number of the extant significant buildings at the property (Figure 4.1.7-2*, 1917 Plot Plan for Los Angeles County Poor Farm*).

At this time, the Psychiatric Wards were enlarged by the addition of two wings, including a partial upper story containing rooms for the attending staff (Figure 4.1.7-3*, Men's Psychiatric Wards, Constructed in 1907 and Enlarged in 1924*).[66] By 1918, the "insane" population had risen to more than 160 patients, and Superintendent Harriman was forced to seek funding for a separate building to house the female psychiatric patients. The new ward was constructed in 1919 and was located directly south of the Men's Psychiatric Ward Building. It was designed in an H shape and accommodated centrally located matron's and administrative rooms; a wing to house the kitchen and dining room; a wing for the patient rooms; and a fenced inner courtyard with a lawn, trees, and flowers.

The numbers of insane patients continued to rise each year, reaching 257 in 1924.[67] Plans were initiated by Harriman to begin the construction of two new ward buildings for 156 men and 98 women, respectively, to be built directly east of the existing psychiatric ward buildings. The new men's ward opened in late 1924, followed by the new women's ward in the summer of 1925. Both buildings mirrored the design and configuration of the original wards. New one-story wall hyphens connected the two men's ward buildings and the two women's ward buildings on the north and south elevations. These wall connectors created an enclosed courtyard space which allowed the patients to roam in a confined area. Over the next several years, additional, freestanding, mostly brick vernacular style buildings (LACO Nos. 1239, 1240, 1241, 1243, 1244, 1245, 1249, and 1251) were constructed within the courtyard areas of the two psychiatric ward complexes. These buildings served several functions, including linen rooms, toilet buildings, and open shelters. In 1931, the Aviary, the sole remnant of the 19th-century Poor Farm, was moved to the courtyard of the Men's Psychiatric Ward complex in hopes of bringing a sense of calmness to the patients.

[65] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 62.

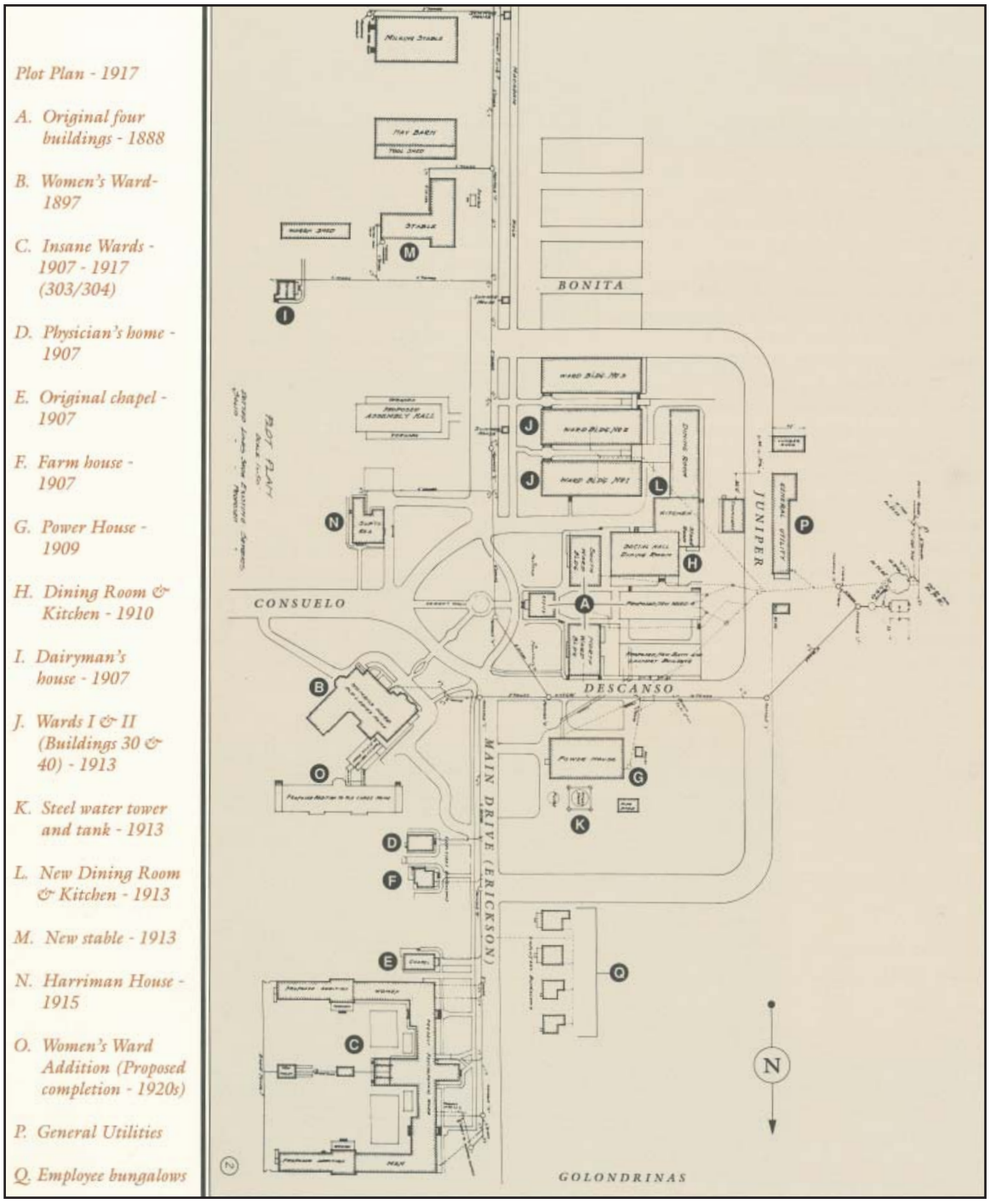
[66] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 89.

[67] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 33.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-1
The Superintendent's House (also known as the Harriman House), Constructed in 1915



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-2
1917 Plot Plan for Los Angeles County Poor Farm



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-3
Men's Psychiatric Wards, Constructed in 1907 and Enlarged in 1924

Throughout the 1920s, as residency continued to increase, Harriman expanded and improved the facilities, including a number of large building projects. (Figure 4.1.7-4*, 1922 Aerial Photograph of the Los Angeles County Poor Farm*) Understanding the need to house additional patients, Harriman began the construction of four Patient Ward buildings in 1922 followed by an additional four wards soon after. This project signaled the full-fledged transition of the farm from a rehabilitative care facility for indigents into a hospital to house long-term invalid patients. By 1922, the institution had a staff of approximately 175 employees to care for the needs of the 1,500 ambulatory patients living at Rancho Los Amigos (Figure 4.1.7-5*, Staff Cottages Located on Flores Street, Constructed in 1921*).[68] By late 1925, an additional five infirmary (Patient) wards had been constructed (Figure 4.1.7-6*, Northwestern View of Infirmary Wards circa 1929 and Floor Plan*). Even with the new facilities, there was a lack of beds in the wards, forcing many patients to reside on the sleeping porches. When administrators realized that this temporary fix was going to become permanent, they enclosed the porches circa 1936.[69]

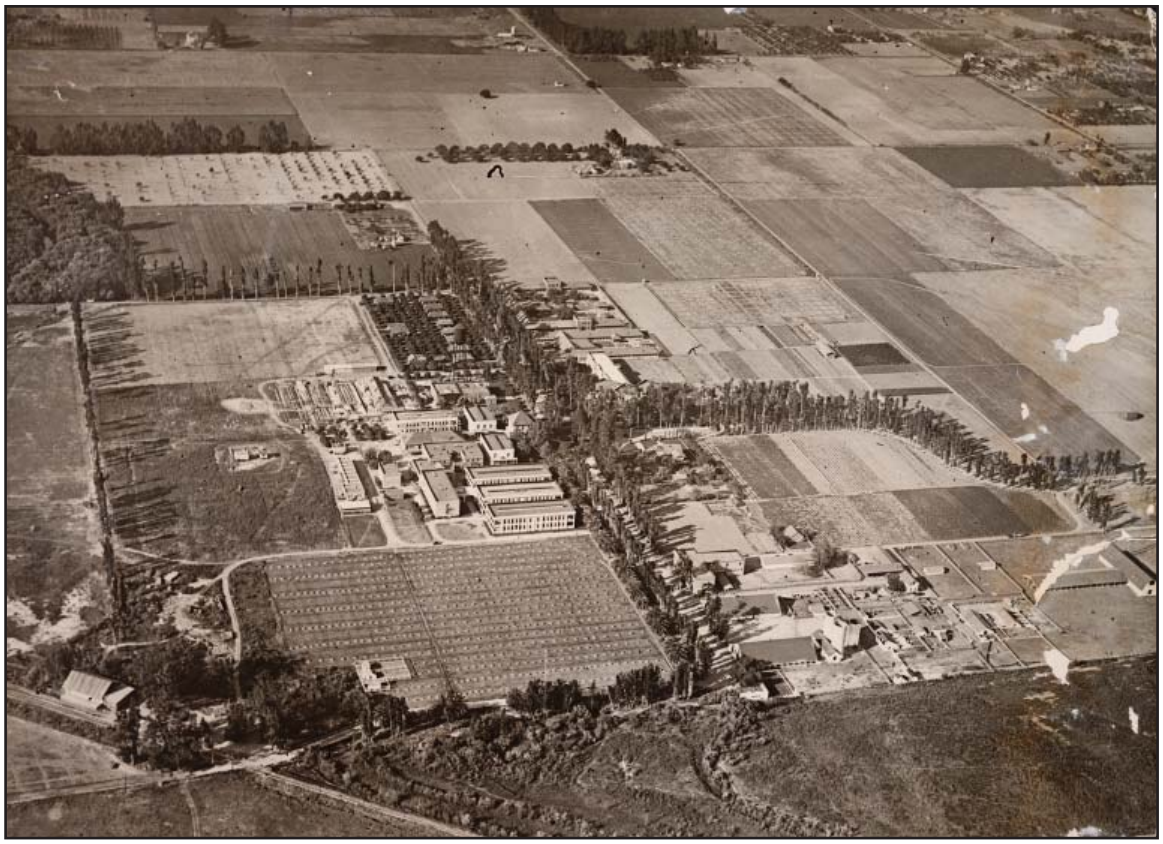
Substantial buildings continued to be erected through the 1920s (Figure 4.1.7-7*, 1926 Aerial Photograph of the Los Angeles County Poor Farm*). The old Administration Building constructed in 1889 was in dire need of repair and was replaced by a new building in 1926 (Figure 4.1.7-8*, The New Administration Building, Constructed in 1926*). The old Administration Building was demolished in 1929 and replaced with a fish pond, and an 18′ × 12′ wrought iron shelter was constructed mark the location of the former building. A new kitchen and service building (LACO 1295) was constructed for employees of the nearby infirmary ward and general ward buildings (Figure 4.1.7-9*, The New Kitchen and Employee Dining Room Constructed in 1929*). The old brick refectory building was razed and replaced with an 850-seat Spanish Colonial Revival Auditorium, which provided much needed diversions to the ailing patients and staff (Figure 4.1.7-10*, The Spanish Colonial Revival Style Auditorium, Constructed in 1928*). Movies were screened weekly in the Auditorium and other musical types of entertainment were offered as well. A radio and reading room was located in the rear of the building. A new Woman's Ward, Casa Consuelo (LACO No. 1238), also featured Spanish Colonial Revival styling, and was able to accommodate 188 female patients in bright and cheery rooms, all with an exterior view (Figure 4.1.7-11*, Casa Consuelo, Constructed in 1930*).[70] Harriman's wife, Elinor, is credited with having influenced the design of the building.

In addition to the physical changes that occurred under Harriman's leadership, there were also philosophical changes at the Poor Farm. Harriman subscribed to the idea that the physical condition of an individual could be improved through occupational and physical activities and by the character of their surroundings. Harriman's philosophy for self-improvement soon encompassed all aspects of life at the Poor Farm. Harriman insisted that the patient's needs and comfort be addressed through the development of amenities at the Poor Farm. He insisted that the patients work towards their own physical improvement, through active rehabilitation. Patients were assigned to work on the farm or in the greenhouse, based on their physical capabilities and individual talents. These occupational therapy activities were also intended as physical therapy, by providing the patients with fresh air, sunshine and independence.

[68] Foster, Henry. 5 October 1959. "History of the Rancho." Los Angeles: University of Southern California Archives. Box 25, Folder 57.

[69] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 120.

[70] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 142–148.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

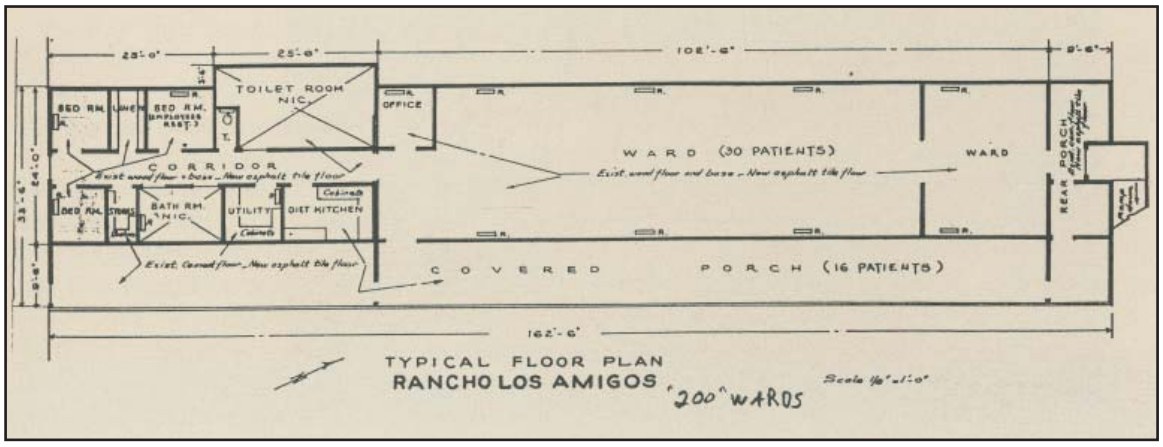
FIGURE 4.1.7-4
1922 Aerial Photograph of the Los Angeles County Poor Farm



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

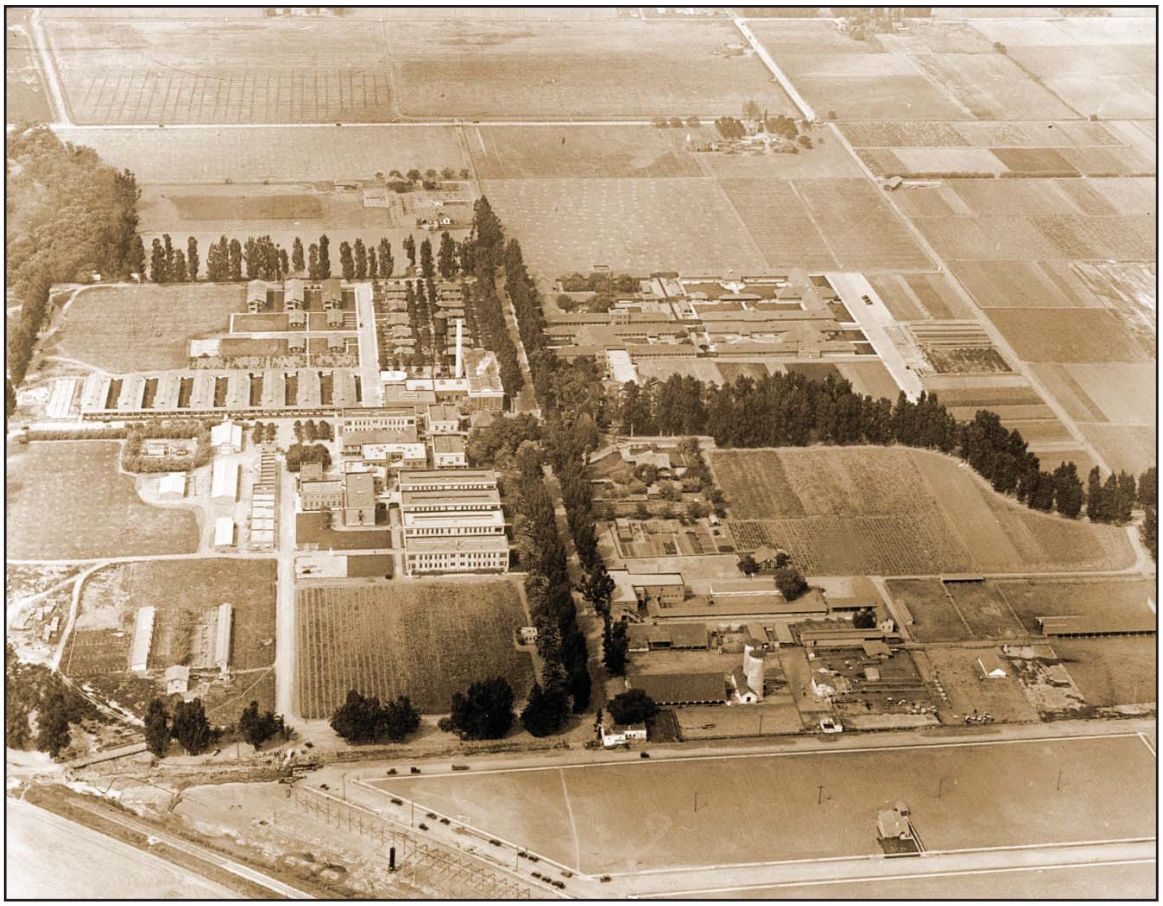
FIGURE 4.1.7-5
Staff Cottages Located on Flores Street, Constructed in 1921





SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-6
Northwestern View of Infirmary Wards Circa 1929 and Floor Plan



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-7
1926 Aerial Photograph of the Los Angeles County Poor Farm



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988.* Downey, CA

FIGURE 4.1.7-8
The New Administration Building, Constructed in 1926



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-9
The New Kitchen and Employee Dining Room, Constructed in 1929



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-10
The Spanish Colonial Revival Style Auditorium, Constructed in 1928



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-11
Casa Consuelo, Constructed in 1930

The Occupational Therapy Department was established in 1926, and was integral to the improvement in lifestyle at the Poor Farm. Eighteen types of craft and handiwork were taught through the department, ranging from rug making and basket weaving to leather work. The Occupational Therapy Department allowed the institution to increase its self-sufficiency and generate income. Patients were employed to make everything necessary for every day life, as well as stock a showroom of items for sale, including equipment, furniture, linens, food, shelters, repairs, and printed matter (Figure 4.1.7-12*, Patients Creating Wicker Furniture at the Occupational Therapy Shop*). In 1929, a new building was constructed on Bonita Street to house the occupational therapy shops.[71]

By the end of the 1920s, the Poor Farm comprised an impressive 540 acres of farmland and buildings, with a property value of $2 million dollars. The property produced three annual crop yields, and real estate improvements included one mile of paved roads, an additional one and one-fourth miles of decomposing granite roads, miles of sewer mains connected to the County sanitation system, hundreds of acres of new lawns, gardens, and trees and numerous buildings serving a variety of purposes[72] (Figure 4.1.7-13*, 1928 Aerial Photograph of the Los Angeles County Poor Farm*).

The stock market crash of 1929 and ensuing Depression created a challenge for the Poor Farm. Not only did admittance at the County Farm rise due to the increased number of indigents within the County health care system, but also funding was significantly reduced. By 1934, a shift in patient demographics served had become apparent, with an increased number of patients from the professional, or white-collar, sector of society. Patient records from the period document attorneys, physicians, professors, and accountants among the County Farm residents.[73]

Despite the reduced budget, Harriman was still able to implement several upgrades to the facility, including the erection of new buildings. Improvements during this period primarily consisted of maintenance to existing buildings including making all building ramps nonslip and providing patients in wheelchairs improved access throughout the Rancho. Several significant buildings were erected, including the Harriman Building in 1933 (not located within the boundaries of the Historic District), (Figure 4.1.7-14*, Harriman Building under Construction in 1930*), which became the first modern medical facility on the property grounds.[74] (The Poor Farm managed to maintain all of its existing services and features, including its landscaping department, thanks to the supply of labor provided by the increasing number of admitted inmates (Figure 4.1.7-15*, 1930 Aerial Photograph of the Los Angeles County Poor Farm*).

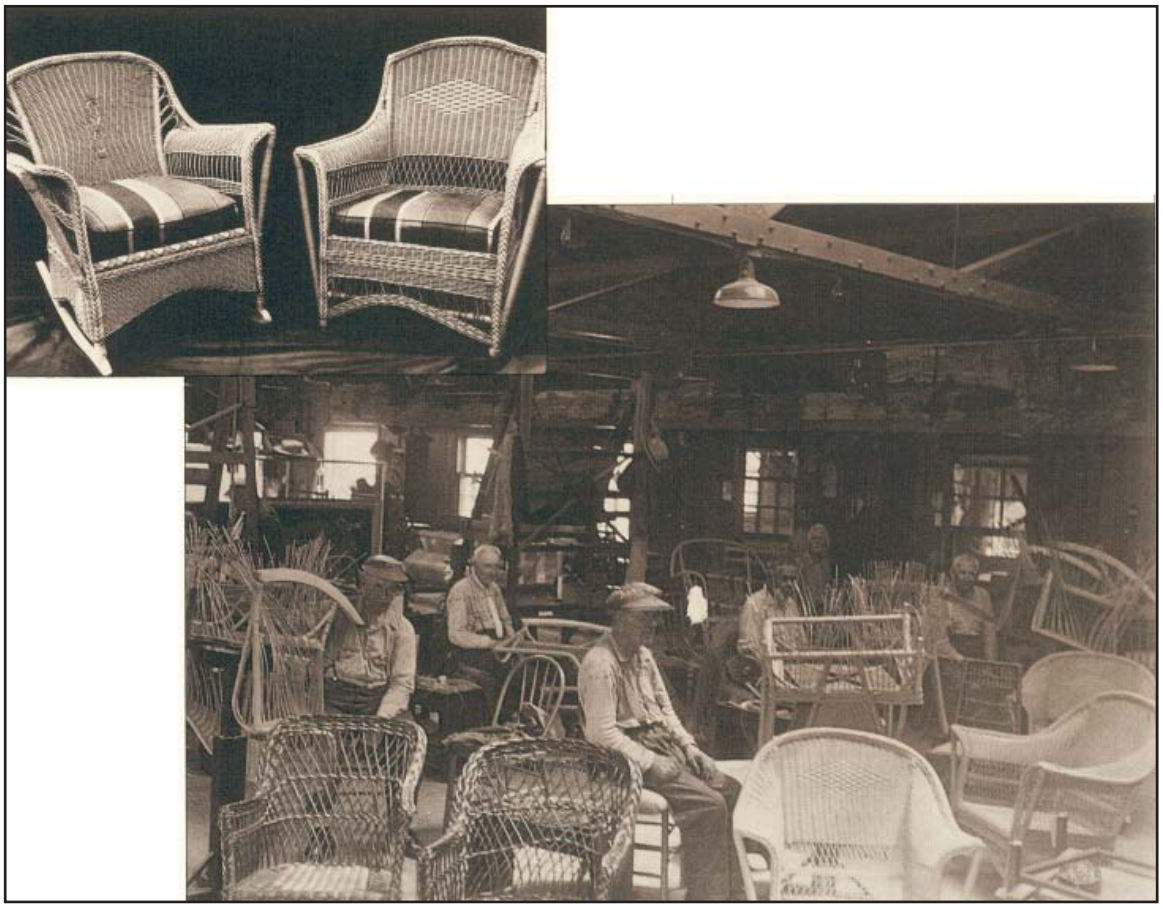
In 1932 Harriman petitioned the County of Los Angeles to change the official name of the institution from County Poor Farm to "Rancho Los Amigos," or "Ranch of the Friends." This name change served as public notice of the evolving medical mission of the facility, as well as helping to shed the stigma associated with the title of "Poor Farm." The 1932–1933 Annual Report for Rancho

[71] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 140.

[72] Harriman, William R. "1927–1928 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[73] Quinn, Charles Russell. 1973. *The History of Downey, California*. Elena Quinn Publishers, City of Downey, CA, p. 146.

[74] Harriman, William R. "1929–1930 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.



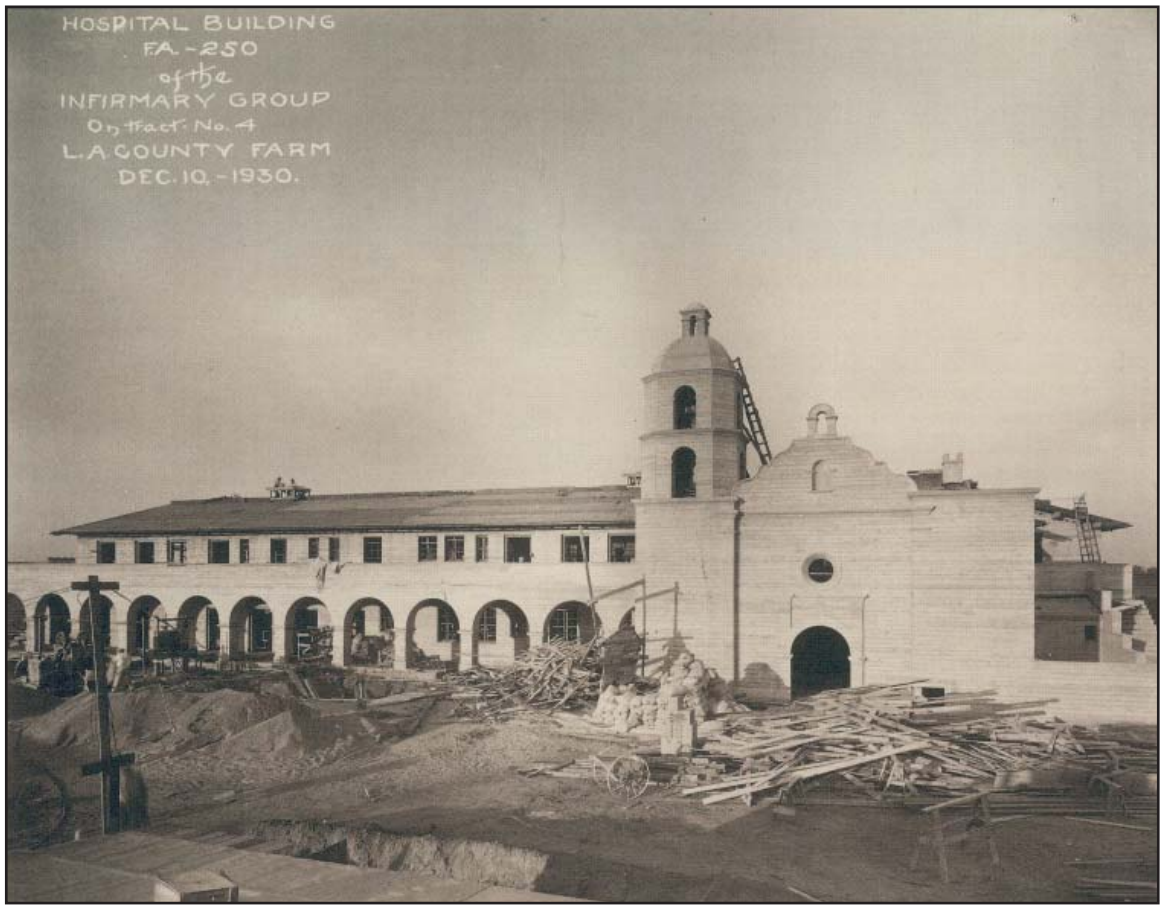
SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-12
Patients Creating Wicker Furniture at the Occupational Therapy Shop



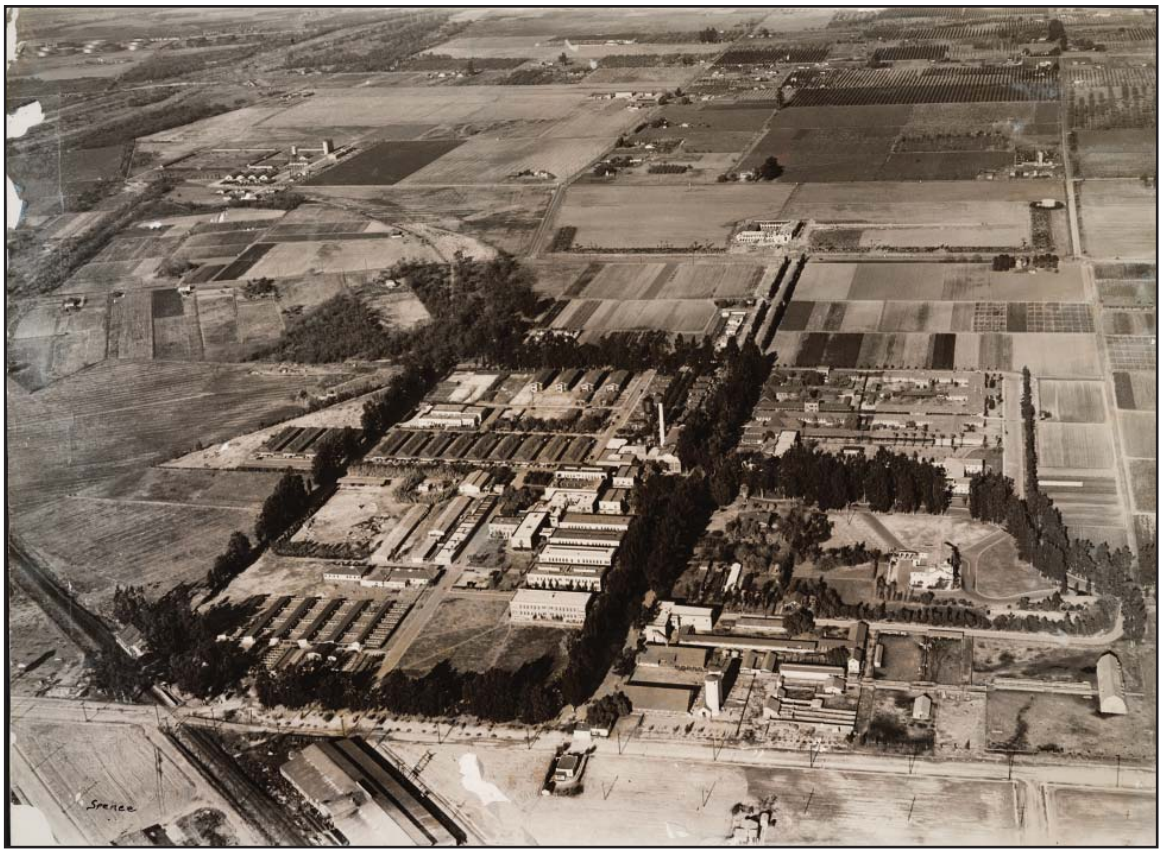
SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-13
1928 Aerial Photograph of the Los Angeles County Poor Farm



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-14
Harriman Building Under Construction in 1930



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-15
1930 Aerial Photograph of the Los Angeles County Poor Farm

Los Amigos reported that the institution's beds were occupied at 97-percent capacity, averaging 2,976 beds by mid-year.[75] Rancho continued to take in patients who were physically disabled or over the age of 65. The Depression-era budget precluded the addition of more infirmary wards, so Harriman converted buildings—the cow barn became the men's General Ward—and added extra beds in hallways and porches of the other General Wards to accommodate the swelling numbers of patients.[76]

Before the stock market crash of 1929, money was set aside for the construction of a patient recreation hall. Bonita Hall opened in 1932 to serve the recreational needs of the patients (Figure 4.1.7-16, *Bonita Hall, Constructed in 1932)*. Designed in the Spanish Colonial Revival Style, the single story building featured a large assembly room for male patients, as well as several rooms which housed utilities, employment offices and the patients' canteen.[77]

The 1933 Long Beach Earthquake provided the catalyst for much-needed improvements to the institution's infrastructure (Figure 4.1.7-17*, Impact of 1933 Long Beach Earthquake*). Utilities in particular were upgraded. Equipment was installed to ensure a back-up power source in the event of another disaster, and a contract was secured with Southern California Edison to provide power to the new buildings situated north of Imperial Highway, as well as a back-up power on an as-needed basis. In addition, improvements were made to many of the unreinforced masonry buildings damaged during the earthquake. Employees quickly went to work bracing the weakened walls and making repairs to various buildings. Four buildings were condemned and razed following the earthquake, including the original women and men's wards.

By late 1937, Rancho Los Amigos was treating close to 3,000 patients annually. The average patient age had been dramatically reduced due to the 1933 enactment of the National Social Security Act, which gave individuals over the age of 65 a $35 monthly allowance. This enabled older inmates to leave institutional care and provide for themselves. Their departure freed space for chronically ill children to be admitted to the new medical center.[78] This shift in types of patients propelled Rancho Los Amigos into becoming an exclusively hospital facility. The majority of patients could no longer contribute to the production of the farm, which increased the cost of patient care and caused the gradual phasing out of the farming operations. This was confirmed in an April 14, 1941, *Los Angeles Times* article, which stated, "For several years the institution has been more of a convalescent hospital than a county farm, therefore the persons cared for there are designated as patients rather than inmates."[79] (Figure 4.1.7-18*, 1938 Aerial Photograph of Rancho Los Amigos*).

By the end of World War II, the patient population at Rancho Los Amigos had more than doubled from 2,500 to 5,579. A significant portion of this patient increase resulted from the wide-spread polio outbreak which began in 1945. In 1950, General Ward 40 (LACO No. 1185) was remodeled to accommodate polio patients.[80] In the late 1940s, immediately after World War II,

[75] Harriman, William R. "1932–1933 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[76] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 158.

[77] Harriman, William R. "1932–1933 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[78] *Los Angeles Times*. 4 October 1937. "County Moving Sick Children," p. A18.

[79] *Los Angeles Times*. 14 April 1941. "Poor Farm's Cost Declines," p. 216.

[80] Harriman, William R. "1949–1950 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern



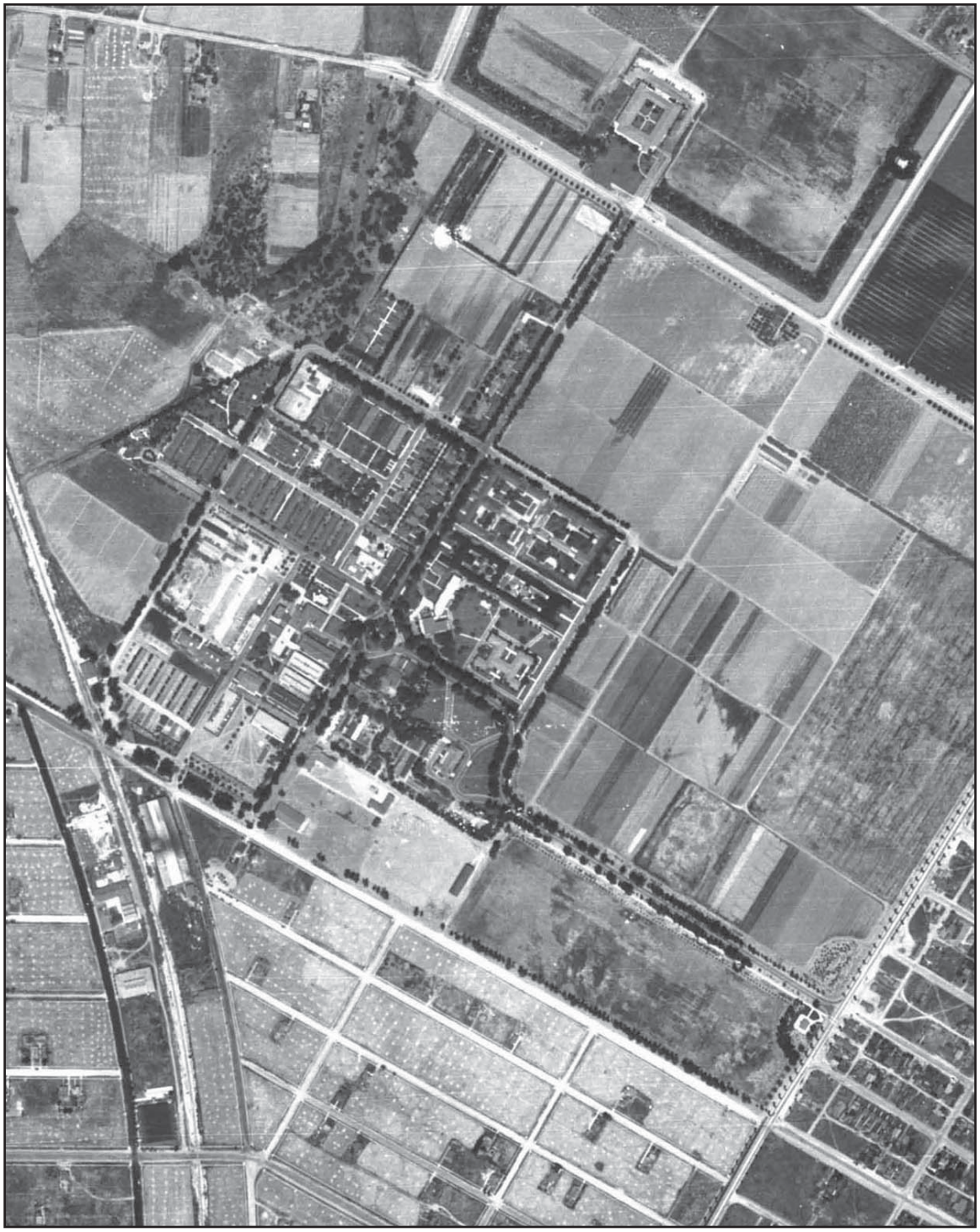
SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-16
Bonita Hall, Constructed in 1932



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-17
Impact of 1933 Long Beach Earthquake



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.7-18
1938 Aerial Photograph of Rancho Los Amigos

Superintendent Harriman began construction of four ward buildings adjacent to the Medical Building (Harriman Building). This was the first large-scale construction project to take place at Rancho Los Amigos in a number of years, and it initiated a large-scale building program on the portion of the property located north of Imperial Highway. Harriman also planned a convalescent home for the growing number of children, physiotherapy and hydrotherapy building, a larger chapel, warehouses, and garages.[81] He added the departments of pediatrics and speech and hearing. He also opened a Rehabilitation Shop where patients handicapped by illness or injuries could be trained in wood and leather working, watch making, ceramics, and other crafts.[82]

The most important shift in the development of Rancho Los Amigos in the post World War II years was the response to the mass outbreak of polio in Los Angeles County. As the epidemic continued for several years, Rancho Los Amigos became a well-known polio rehabilitation center.[83] Many of the existing buildings underwent first-floor improvements to accommodate polio patients.[84] Most of the polio ward staff became polio treatment experts who taught their methods to other medical professionals all over the country.

4.1.8 Post-Harriman Years: 1952–Present Day

In 1952, Superintendent Harriman retired, and Robert Thomas assumed the duties of superintendent. Under his guidance, a Respiratory Center was constructed in 1952 in the expanding facility north of Imperial Highway (Figure 4.1.8-1*, 1954 Aerial Photograph Rancho Los Amigos*). Thomas reorganized the staff into the Professional Services Department, the Nursing Department, and the Dietary Department, to better coordinate the various services of Rancho Los Amigos. New departments and programs initiated under Thomas' watch included a Home Care Department, an Orthopedic Department, a pilot rehabilitation program, and Social Services Department. Although Thomas left after only four years in 1956, Rancho Los Amigos continued to expand its medical services for polio patients and develop an innovative rehabilitative program.

With the waning of the polio epidemic after the development of vaccines in the mid-1950s, Rancho Los Amigos made its transition to rehabilitative care through the development of its progressive rehabilitation program (Figure 4.1.8-2*, Polio Patients Receiving Rehabilitative Care at Rancho Los Amigos National Rehabilitation Center in the 1950s*). In 1958, the hospital sought accreditation, which was granted in May 1959. By the end of the decade, Rancho Los Amigos was recognized as a quality medical facility and the farming facilities of the old Poor Farm were completely abandoned.[85]

Rancho Los Amigos continued to grow throughout the late–20th century and to develop into a state-of-the art medical facility. As the emphasis for expansion and development occurred north of Imperial Highway, the existing buildings from the County Farm era were vacated and used for office space, storage, or were abandoned. Today, Rancho Los Amigos Medical Center remains one

California. Box 22, Folder 13.

[81] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 224.

[82] *Los Angeles Times*. 4 March 1946. "Rehabilitation Shop to Open," p. 8.

[83] *Los Angeles Times*. 14 April 1941. "Poor Farm's Cost Declines," pp. 216–217.

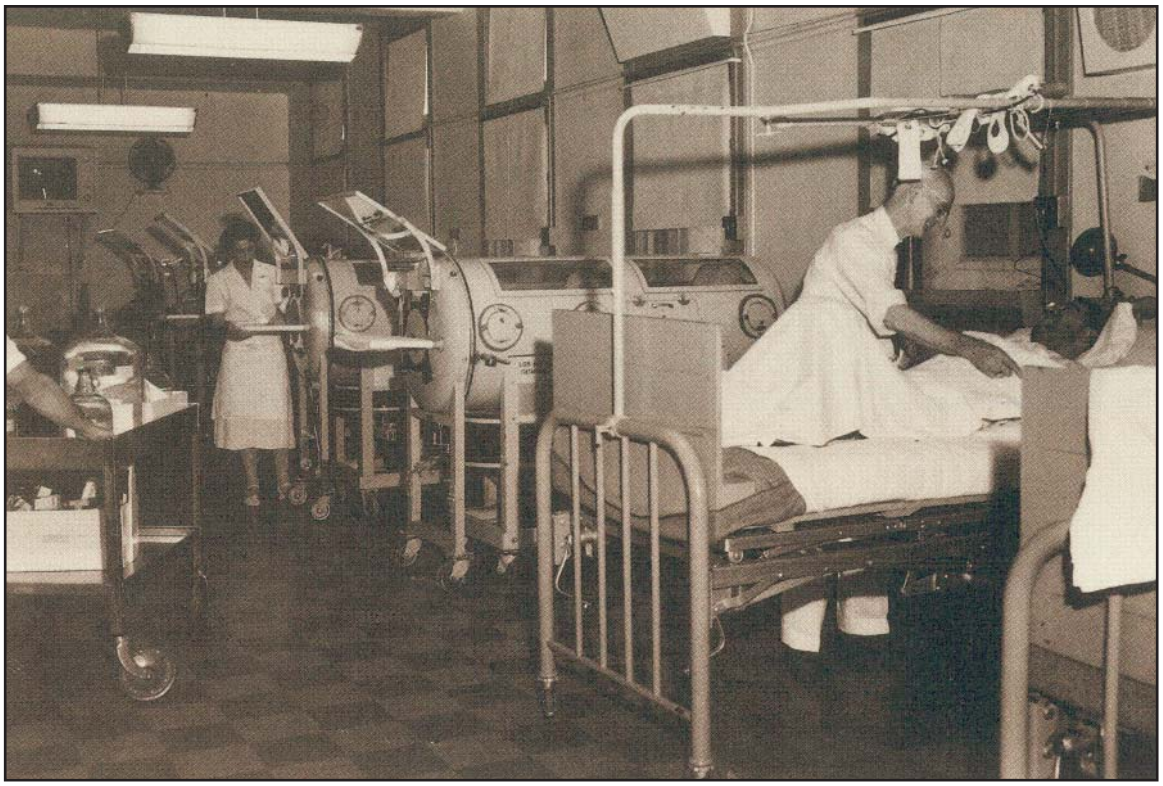
[84] McAvoy, Christy J. 26 July 1995. *Rancho Los Amigos Medical Center, Primary Record and District Record.* Los Angeles, CA: Historic Resources Group, pp. 216–217.

[85] McAvoy, Christy J., Historic Resources Group. 26 July 1995. *Rancho Los Amigos Medical Center, Primary Record and District Record.* Los Angeles, CA, p. 300.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.8-1
1954 Aerial Photograph of Rancho Los Amigos



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.1.8-2
Polio Patients Receiving Rehabilitative Care at
Rancho Los Amigos National Rehabilitation Center in the 1950s

of four hospitals in the Los Angeles County Department of Health Services and has become a leading center for rehabilitative care.

4.2 SIGNIFICANT HISTORICAL THEMES

4.2.1 Rancho Los Amigos Role in the County Health and Welfare Systems

Rancho Los Amigos is significant as one of the historic lynch pins of the public services provided by the County of Los Angeles, initially as a poor farm and subsequently as a hospital whose mission evolved into one of rehabilitation. The Los Angeles County Poor Farm was founded on the basic principles of the poorhouse system developed during the Industrial Revolution in England to provide care to the poor, disabled and elderly. It was not unusual for the dual goals of welfare for the indigent and medical care for the impoverished to overlap.

Prior to the concept of a county hospital system, many American general care facilities were administered through federal aid. This type of funding became available in 1798 to both governmental and private hospitals that served as marine hospitals under the terms of legislation for the "relief of sick and disabled men."[86] Government funding seemed to be an incentive for various private groups across the country to open their own hospitals. According to H.S. Mustard in *Government in Public Health*, the financial appropriation for a hospital in the 1800s was, "a favorite mode of starting a new town in the West, if it was anywhere on a stream or on a good size puddle."[87]

During this time, states were somewhat involved with subsidizing hospitals through the issuing of grants; however, such grants were not intended to serve as substitutes for government hospital provision. States tended not to be involved in the provision of general hospital care and preferred funding psychiatric hospitals. Usually, states that provided funds for general hospitals did so on a selective, ad hoc, case-by-case basis, responding to specific requests from individual local groups.[88] One exception to this was the state of California, which in 1851 established a short-lived state accident hospital in the gold-mining areas of Stockton and Sacramento.[89] Later, Pennsylvania and West Virginia followed California's lead and established their own accident hospitals. Some states also provided welfare medical care through the hospitals of the state university system.

Local governments were also involved in early medical care; this consisted mainly of provision of infectious disease and isolation hospitals in major cities and seaports, and had the intention of quelling the recurring epidemics of smallpox, cholera, typhoid, and diarrhea. Counties and cities also provided a substantial amount of hospital care in almshouses, or County Poor Farms, for the destitute and impoverished.[90] Sometimes, local governments supported general care hospitals by providing land. The beginnings of today's welfare medical system were evident in the grants provided to hospitals for the care of indigents. According to Rosemary Stevens,

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[86] Stevens, Rosemary. Autumn 1982. "A Poor Sort of Memory": Voluntary Hospitals and Government before the Depression. The Milbank Memorial Fund Quarterly. *Health and Society*, *60*(4): 551–584.

[87] Mustard, H.S. 1945. *Government in Public Health*. New York: Commonwealth Fund.

[88] Stevens, Rosemary. Autumn 1982. "A Poor Sort of Memory": Voluntary Hospitals and Government before the Depression. The Milbank Memorial Fund Quarterly. *Health and Society*, 60(4): 553.

[89] Cahn, F., and V. Barry. 1936. *Welfare Activities of Federal, State and Local Governments in California, 1850–1934*. Berkeley, CA: University of California Press.

[90] Stevens, Rosemary. Autumn 1982. "A Poor Sort of Memory": Voluntary Hospitals and Government before the Depression. The Milbank Memorial Fund Quarterly. *Health and Society*, 60(4): 554.

> Similarly, in cities with large immigrant populations, such as New York City, government payments to voluntary hospitals supplemented the governmental hospital system. Where government aid existed, its form was determined by a combination of local political conditions, commonsense, the strength of local interest groups, and the taxing structures which obtained in different states.[91]

As previously noted, California's hospital system began in the mid-1800s, as a result of the Gold Rush. Approximately 250,000 "49-ers" entered California during the Gold Rush, significantly increasing the state population. The majority of emigrants settled in Northern California. Poor sanitation in gold fields and newly formed mining settlements resulted in a variety of health problems and diseases for miners, many of whom ended up in the state's cities destitute and in bad health, resulting in mass outbreaks of scurvy, rheumatism, dysentery, and fevers. In response to public outcries, the state legislature passed a bill to provide funding for a much-needed state Marine Hospital in San Francisco.

Due to the overcrowded conditions in Northern California, many of the emigrants drifted south, causing a concern over sanitary conditions in Los Angeles County. At this time, Los Angeles, still a growing frontier town with little infrastructure, was unequipped to handle the large influx of impoverished and ill settlers. Smallpox epidemics broke out, periodically killing hundreds of residents.[92] Medical treatment was available from eight local County-funded doctors or was left to the responsibility of the individual or his family.

Public care for the poor officially began in 1850, when the California state legislature enacted a requirement that the court of session should, "perform all acts necessary to the county welfare." Following the creation of a Board of Supervisors in 1852 for each county, the task of caring for the aged and needy became a local venture. Consequently, in 1855, the California state legislature passed a bill known as the "Poor Law of 1855," which transferred responsibility for providing medical care for the indigent ill from the state to the county boards of supervisors: [93]

> The board of supervisors of each county has the duty to construct or lease, officer, and maintain hospitals and almshouses, or, at their discretion, to provide otherwise for the indigent sick or dependent poor of the county, and for such purposes may levy the necessary tax.[94]

In response to this legislation, in July 1855 the County of Los Angeles appointed two prominent residents, Abel Stearns and John G. Downey, to spearhead efforts to establish the county's first public hospital. On May 29, 1858, the new hospital was officially opened in a house owned by a Los Angeles resident named Cristobal Aguilar; the publication *Southern Vineyard,* stated that the facility was located "north of the church."[95] It was operated by the Sisters of Charity and overseen

[91] Stevens, Rosemary. Autumn 1982. "A Poor Sort of Memory": Voluntary Hospitals and Government before the Depression. The Milbank Memorial Fund Quarterly. *Health and Society*, 60(4).

[92] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 8.

[93] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 9.

[94] Quoted in U.S. Department of Commerce and Labor bureau of the Census. 1906 Special Reports: Paupers in Almshouses 1904. Washington, DC: Government Printing Office. Available at: http://www.poorhousestory.com/

[95] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 10.

by the county physicians. The new hospital consisted of two wards: a ward for paying patients and a ward for charity patients.

In 1860, the state Legislature passed a law requiring county hospitals to provide care for all indigent persons, despite their health condition or income level. Due to this new responsibility put on the County Hospital, the Los Angeles County Board of Supervisors saw no alternative but to move the facility to larger accommodations. The hospital was relocated to a building on a nine-acre lot on Naud Street between North Main and San Fernando Streets. In addition to the building, the nine acres of grounds consisted of scenic landscaping of orange groves, pepper and walnut trees, and a vegetable garden.[96]

By 1869, conditions at the County Hospital had again become overcrowded. The situation had worsened by the mid-1870s due to the influx of settlers that arrived in Los Angeles following its connection with the Southern Pacific Railroad network. Public outcry demanded the construction of a hospital facility with an adjoining Poor Farm that offered destitute but able-bodied indigents a way to offset the costs of their food and care.

Poor Farms or Poorhouses had first appeared in the United States during the early 1800s. Intended to be the least expensive option for caring for the indigent, the poorhouse or almshouse system was designed to be tax-supported, and offered long-term care to the poor, disabled and elderly. Early poorhouses were the seeds of the modern American welfare system and followed the English tradition of care, jointly serving as a rehabilitation center and correctional institution. These establishments did not distinguish between individuals suffering from poverty and criminal behavior, as evidenced by the use of "inmate" to refer to the patients at the poorhouse or poor farm.[97] This system was widely supported, as it was believed that such housing could reform people and heal them of the bad behavior, which caused the "afflictions" of poverty and criminality.

By the mid-1800s, the poor farm emerged out of the poorhouse system. Although the poor farm was essentially a poorhouse with farming capabilities, it served to advance the public goal of offering the least-expensive indigent care possible, as the costs of care could be subsidized through the farming activities of the inmates. The poor farms generally were staffed by farmhands who directed the work and were aided by the able-bodied inmates. These farming operations proved highly successful; most became self-sustaining, and some even became profitable. Many poor farms went beyond merely serving the needs of the community's indigent, playing an integral role in the lives of residents who benefited from the poor farm's use as an agricultural center, economic hub, and charity supplier.[98]

In 1878, the County of Los Angeles opened a new Hospital and Poor Farm on a 30-acre lot approximately 1 mile from downtown Los Angeles on Mission Road with funds raised through a hospital bond campaign. The new facility offered 106 beds and was the first hospital to be completely owned and operated by the County.[99]

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[96] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 11.

[97] Wagner, David. 2005. *The Poorhouse: America's Forgotten Institution*. Lanham, MD: Rowan and Littlefield, p. 120.

[98] Wagner, David. 2005. *The Poorhouse: America's Forgotten Institution*. Lanham, MD: Rowan and Littlefield, pp. 5–7, 120.

[99] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 13–15.

The 1880s witnessed another population boom in Los Angeles County, this one triggered by rate wars between two competing railroads serving Los Angeles. The influx of new residents caused overcrowding at the County Hospital once again. To manage the growing hospital demands, the County Board of Supervisors voted in January of 1887 to create the Office of the Superintendent of the County Hospital to oversee the hospital operations, medical supplies, and the duties of the County Physician.[100] Although the hospital operations had improved substantially, the facility could still not accommodate the new wave of settlers to the area. A decision was made to sell the farmland (which by then also included a dairy) and relocate the farm facility to a larger area outside of the city of Los Angeles, which could accommodate a larger facility and more patients. In the tradition of poorhouses or almshouses, the County Board of Supervisors proposed a County Farm where patients would receive shelter, food, and an opportunity to earn a paycheck if contributing to farm production. The County hoped this type of facility not only would be cost sustaining but also would rehabilitate its patients to return to society by creating an atmosphere of work opportunity and community service.

In 1887, the Board of Supervisors decided to purchase a 124.4 parcel of land a few miles from the city of Downey in an area known for its agricultural successes. Ward buildings were immediately constructed to accommodate ambulatory indigents, freeing-up the County Hospital to offer more room for bedridden patients. In November of 1888, the first patients were transferred from the County Hospital to the new County Poor Farm. Over the next three months, patients continued to be transferred as the buildings were completed, the kitchen was stocked, and the farm began its operations. In 1889, a general superintendent was hired to oversee the Poor Farm and also serve as the resident physician.[101]

It was the intention of the County to provide complete medical care by the county physician to the patients of the County Poor Farm; however, the County Hospital was to remain the dominant medical facility. In the Poor Farm's early history, the primary emphasis of the institution was on the farming operations and the rehabilitative care of the indigent patients. Over the years, the Poor Farm began giving care to an increasing number of bedridden and terminal patients due to the continuing overcrowding conditions at the County Hospital. By the mid-1920s, the County Farm had begun to transition into a facility focusing on hospital care rather than on agricultural operations.

The early inmates at the County Farm were mainly destitute foreign and American immigrants. Additional inmates included blue-collar workers, such as miners, laborers, carpenters, wagon makers, brick masons, farmers, and teamsters. Many laborers came to the County Farm to recover from injuries, such as sore arms, injured ankles, or broken legs, which prevented them from working at their occupations. The Poor Farm provided shelter and food until they were well enough to return to work.[102]

For many years, the County Hospital continued to transfer indigent patients to the County Farm whenever they had a large number of admissions. This news was not always met with enthusiasm by the patients who had come to view the Poor Farm as a place for destitute individuals and

[100] *Los Angeles Times*. 25 January 1887. "The Supervisors: Hospital, Jail, and Other Reforms Being Considered," p. 2.

[101] *Los Angeles Times*. 20 February 1889. "An Ordinance," p. 7.

[102] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 43.

oftentimes represented, "a place of lost hopes and shattered dreams."[103] This sentiment was confirmed by a report given by the County Hospital Physician in 1891:

> During the first of the month, the number of admissions was large, and the hospital was very much overcrowded, the average number of patients being 142. On the 12th and 19th 11 patients were sent to the county farm, and it was surprising then how many patients discovered that they had friends who could care for them. In a week, the men had dropped from 119 to 92.[104]

Public perceptions notwithstanding, the County Farm did become self-sustaining through agricultural growth and prosperity. Agricultural operations not only met the daily food supply needs of the Poor Farm, but also provided the daily supply of milk and fresh produce to the County Hospital. It was stated in a 1907 *Los Angeles Times* article that much of the food at the time was being traded for coffins made in the hospital basement workshop.[105] Trades between the County Farm and Hospital saved the County of Los Angeles thousands of dollars each year. By 1911, it was reported that the Poor Farm was supplying the County Hospital with over $13,000 worth of produce and milk, in addition to providing laundry services.[106] And by 1917, the Poor Farm was supplying the hospital with some 167,269 gallons of milk per year. The Poor Farm continued to provide the County Hospital with milk and produce for many years until its farming operations ceased in the 1950s.

Another strong early connection between the County Hospital and the Poor Farm was the shared responsibility for the treatment of mentally ill patients. At the beginning of the 20th century, the state mental institutions were extremely crowded, and patients were sent to county hospitals for care. Los Angeles County created a psychiatric Ward at the County Hospital to provide treatment for these individuals. Once the patients had completed their treatment and had been deemed "harmlessly insane," they were sent to the County Farm where they would be visited regularly by parole officers and a representative of the Lunacy Council. In 1907, the first psychiatric ward (previously known as the Insane Ward or Psychopathic Ward) was constructed at the Poor Farm.[107] Additional psychiatric wards were constructed at the Poor Farm through the early 1920s. If the individual could not afford to pay for their treatment and stay once they were transferred to the Poor Farm, the County assumed the cost. Los Angeles County was the only county in the United States at the time to assume the expense of caring for these individuals once they left the psychiatric ward at the County Hospital.[108]

By 1918, the County Farm had taken on more chronically sick and insane patients than the institution was equipped to handle. The County Hospital had continued to be overcrowded for many years, resulting in the transfer of patients who needed extended medical care to County Farm. In response, Superintendent William R. Harriman requested funding from the County to construct the first infirmary wards (also known as patient wards) at the Poor Farm. An April 29, 1923, *Los Angeles Times* article stated:

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[103] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 45.

[104] *Los Angeles Times*. 9 April 1901. "The County Hospital," p. 3.

[105] *Los Angeles Times*. 21 August 1907. "Coffins and Milk," p. 17.

[106] *Los Angeles Times*. 15 January 1911. "County Farm Not Poor," p. 113.

[107] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 65.

[108] *Los Angeles Times*. 18 January 1920. "New High Mark in Mind-Healing," p. 119.

> The point of distress at the farm is the great overcrowding. Extra beds are on porches, in corridors and storerooms and in the loft of the work-stock stable. In all these places, the beds are crowded, often to the extent of being down the aisles. We are receiving daily applications and are unable to admit many worthy applicants. Further, because of the severe congestion at the hospital, there are being housed at the farm many persons of a type for which the present construction at that institution is not designed. There are 100 inmates of the general wards who must receive food-tray service, whereas the farm is equipped only for those able to go to the dining rooms. Seventy-five men are now housed in the work-stock stable loft.[109]

The first four infirmary wards were completed in 1923, and housed some 130 bedridden patients who had been transferred from the County Hospital.[110] Dozens of additional employees had to be hired, including physicians, nurses, orderlies, porters, and cleaners. Additional kitchen and living facilities were constructed. A total of 13 wards had been constructed by 1927 and were providing care for hundreds of chronically ill patients. According to Colleen Fliedner in *Centennial, Rancho Los Amigos Medical Center, 1888–1988*:

> Mr. Harriman, who seems to have relished statistics, pointed out that "the cost of a single bed at County General Hospital will build and equip five to eight beds at the Farm." Every bed vacated at the hospital was used for an average of 18 acute patients; thus, in 1924, more than 4,000 patients received care at County Hospital due to the fact that the Infirmary Wards had relieved the hospital of 260 patients.
>
> Furthermore, the cost of one bed per day at County Hospital was $3.75, while the net cost in the Infirmary Wards was $1.58 per patient per day. Mr. Harriman estimated that based on these figures $257,000 had been saved in one year alone by having these patients at the County Farm. "This is sufficient to pay for the entire group of buildings and equipment every eight months, as the cost per bed of buildings and equipment is only about one-seventh of that at the General Hospital [County Hospital was called General Hospital in 1925]."[111]

The construction of the infirmary wards signaled a new era for the Poor Farm as it metamorphosed into an institution primarily focused on hospital care. The medical staff was expanded to include not only additional general health physicians but also specialists in fields such as eye, ear, nose, and throat; urology; orthopedic; hydrotherapy; physiotherapy; dental care; psychiatry; and dietetics. New medical offices and a pharmacy were created in one of the General Ward Buildings (LACO No. 1184), and state-of-the-art medical equipment, including an X-ray machine, was purchased. Also at this time, an Occupational Therapy Department was opened to rehabilitate patients by instructing them in the creation of crafts such as baskets, brushes, pottery, leather, woven articles, needlework, metal work, and crepe-paper novelties.[112] This type of therapy also was offered in the wards for those patients who were less mobile.

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[109] *Los Angeles Times*. 29 April 1923. "County Bonds Will Aid All," p. 117.

[110] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 105.

[111] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 119–120.

[112] *Los Angeles Times*. 27 September 1937. "Handicaps Forgotten in Therapy Work," p. A16.

In 1930, Superintendent Harriman constructed a modern medical building (now known as the Harriman Building) north of the original buildings, on what is now known as the Rancho Los Amigos North Campus. This building was filled with the latest equipment, laboratories, and surgery facilities, and also provided separate rooms to isolate patients of varying illnesses. Two months after the completion of the building, the medical department, laboratories, dental services, various treatment rooms, X-ray, and the new surgical unit moved into the building, as well as over 200 patients. Although the County Farm had not yet been identified as an official hospital, major surgery was performed in the new building beginning in late 1931. Over fourteen operations of seven different classifications were carried out the first year, saving the County the amount of money it would take to transport the patients to the County Hospital.[113] To mark this new direction of modern medicine, Harriman petitioned in 1931 to change the name of the institution from the antiquated County Farm to Rancho Los Amigos. The name was officially adopted in 1932.[114]

Over the years, Rancho Los Amigos treated many serious illnesses. A few tuberculosis patients were transferred during the institution's early days. Either the County Hospital did not diagnose their condition prior to transferring them or the overcrowding conditions forced their transfer despite the possibility of spreading the highly contagious disease. As knowledge of the disease was gained, tubercular patients were isolated from the rest of the inmates. Another serious disease treated was syphilis. The institution served as a facility for syphilis research between 1922 and 1928. Some 120 treatments were given to approximately 60 patients each week.[115] In 1944, Rancho Los Amigos began treating polio patients during the mass outbreak in Los Angeles County. Rancho's success in rehabilitating polio patients and its advanced physical therapy methods led to its role as a polio rehabilitation center and reputation as the leading post-polio respiratory center in the world.[116] Polio wards were created in the Medical (Harriman) Building, as well as on the first floors of many of other buildings.

By 1951, the role of Rancho Los Amigos within the County health system according to Fliedner was to be

> One of the five hospitals operated by the county with the primary mission of providing geriatric, medical, and nursing care, as well as care for those suffering from chronic diseases or convalescing from medical or surgical conditions. Rancho also provided the necessary medical, surgical, and ancillary care for the largest concentration of respirator-dependent poliomyelitis patients in history.[117]

Today, Rancho Los Amigos continues to be one of four hospitals operated by the County of Los Angeles.

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[113] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 161–162.

[114] *Los Angeles Times*. 14 October 1932. "Amigos Rancho: Over the Hill," p. 11.

[115] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 124.

[116] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 216–217.

[117] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 235.

4.2.2 Campus Design

4.2.2.1 Setting and Landscape

The historic character of the Rancho Los Amigos Historic District has been shaped by its design, including the physical layout, which evolved over the facility's approximately 120-year history into the campus apparent today. Although the landscaping department of the County Poor Farm was not officially established until 1907, landscaping was always an integral component of the design and activities of the institution. This concern was evident from the initial work on the property to create the Poor Farm. Local laborers were employed to clear the land, grade the roadways, and plant eucalyptus saplings along planned walkways and roads, as well as along much of the property's periphery. The eucalyptus trees provided a supply of hard wood for use in building fence posts, and created a shaded, lush setting for the grounds. Along the north-south running entrance of Main Drive, date palms lined one side of a walkway with eucalyptus trees on the other side.[118] Groupings of native willows and sycamores were left in place around the property and dozens of small areas were prepared for plantings of roses and various flowers. According to Fleidner, "By the end of February, 1888, the Board of Supervisors noted that the task of planting the shade and ornamental trees had been completed, and everything was ready for the buildings to be constructed."[119]

The original 1887/1888 design for the County Poor Farm, by the Los Angeles architecture firm of Kysor, Morgan and Wells, included plans for immediate construction of buildings (the Men's and Women's Wards), as well as future buildings which would be erected as necessity and funding allowed. In addition, the architects included plans for landscaping and infrastructure improvements to the property. So confident in the design, original architect Octavius Morgan proclaimed,

> When all of the buildings are completed and the orchards and gardens are in good trim the poor farm will be one of the prettiest spots on the face of the globe. The farm is beautifully situated, and if the plans are carried out the poor will have a home that cannot be surpassed in the United States.[120]

The plan envisioned a U-shaped configuration of the buildings, with a central courtyard defined by the North (Female) and South (Male) Wards and a central Dining Hall (Refectory). While the commissions for the two wards were given to Kysor, Morgan, and Walls, the job of designing the Dining Hall fell to another local architect, Jacob Friedlander. The central courtyard was landscaped with lawns and flower beds. A year later, in 1889, Morgan designed the fourth building on the campus (the Administration Building), which was to serve as an office, residence for the physician and superintendent, and laboratory.[121] During the 1890s, fountains were built in front of the Men's and Women's Wards. Trees, lawns, and gardens with flower beds were planted and cultivated throughout the property.

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[118] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 23.

[119] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 23–24.

[120] *Los Angeles Times*. 5 August 1888. "For Indigents. Something about the County's Poor Farm Near Downey," p. 5.

[121] *Los Angeles Times*. 27 February 1889. "The Supervisors," p. 2.

In 1891, the Poor Farm was visited by a group of benevolent women from Los Angeles, as well as two women representing the *Los Angeles Times*. They were given a guided tour and are quoted as describing the landscaping characteristics of the property in the following way:

> There are three of the main buildings, all built of brick and connected by wide verandas. . . . The space between them is a lovely court with a green and well-kept lawn, playing fountains and beds of flowers. Around this space upon three sides the covered verandas extend, and here the inmates may sit listening to the tinkling of the flashing water which falls in diamond-like drops upon the greensward or into the bed of the pool. Birds sing their songs here, and flowers blossom all year, and there is northing but beauty and quiet everywhere in this spot. Between the buildings the vista opens upon a wide expanse of tree and orchard-crowned plains. In another direction are the harvest and alfalfa fields of green and gold.
>
> It is surprising to see the results of the two and a half years during which the farm has been occupied. Substantial frame out-buildings have been completed; 32,000 orange trees have been planted with 800 other varieties—apples, apricots, pears and figs. There are four miles of eucalyptus trees; twenty acres sown to alfalfa; ten to barley, and about the same number to corn, and there are two acres devoted to vegetables.[122]

The group's enthusiastic response to the Poor Farm's park-like setting was noted by the County Board of Supervisors. Soon mention of the property's beauty and tranquility was a regular feature in the *Los Angeles Times*. This publicity influenced the Board of Supervisors to "beautify" the County Hospital in 1900. Under the supervision of one of the inmates, a gardener by trade, a hothouse was erected and plantings from many local conservatories and parks were relocated to the hospital grounds.[123]

A 1902 map of the Poor Farm depicted the curved east-west roadway entrance (currently known as Consuelo Street) as the main entrance into the property, leading west towards the center of the farm where a circular drive enclosed the core of the original four buildings. To the south of the farm driveway the map indicated the location of the livestock pens, where the hogs, poultry and cows were kept. To the west of the circular driveway and buildings, the remaining acreage of the Farm was planted in orange and lemon orchards (Figure 4.2.2.1-1, *1902 Map of the Los Angeles County Poor Farm*).

To maintain the extensive gardens of the Poor Farm, Superintendent Chick established a Landscape Department in 1907. Mr. O.D. Pond was hired as the first full-time gardener, with a monthly salary of $50. Pond was responsible for directing the landscaping efforts at the Poor Farm, primarily through the use of inmate labor to maintain the expanses of lawns, trees and gardens.[124] By 1917, the farm included a separate area with ancillary buildings and tools specifically for the landscaping operations.[125]

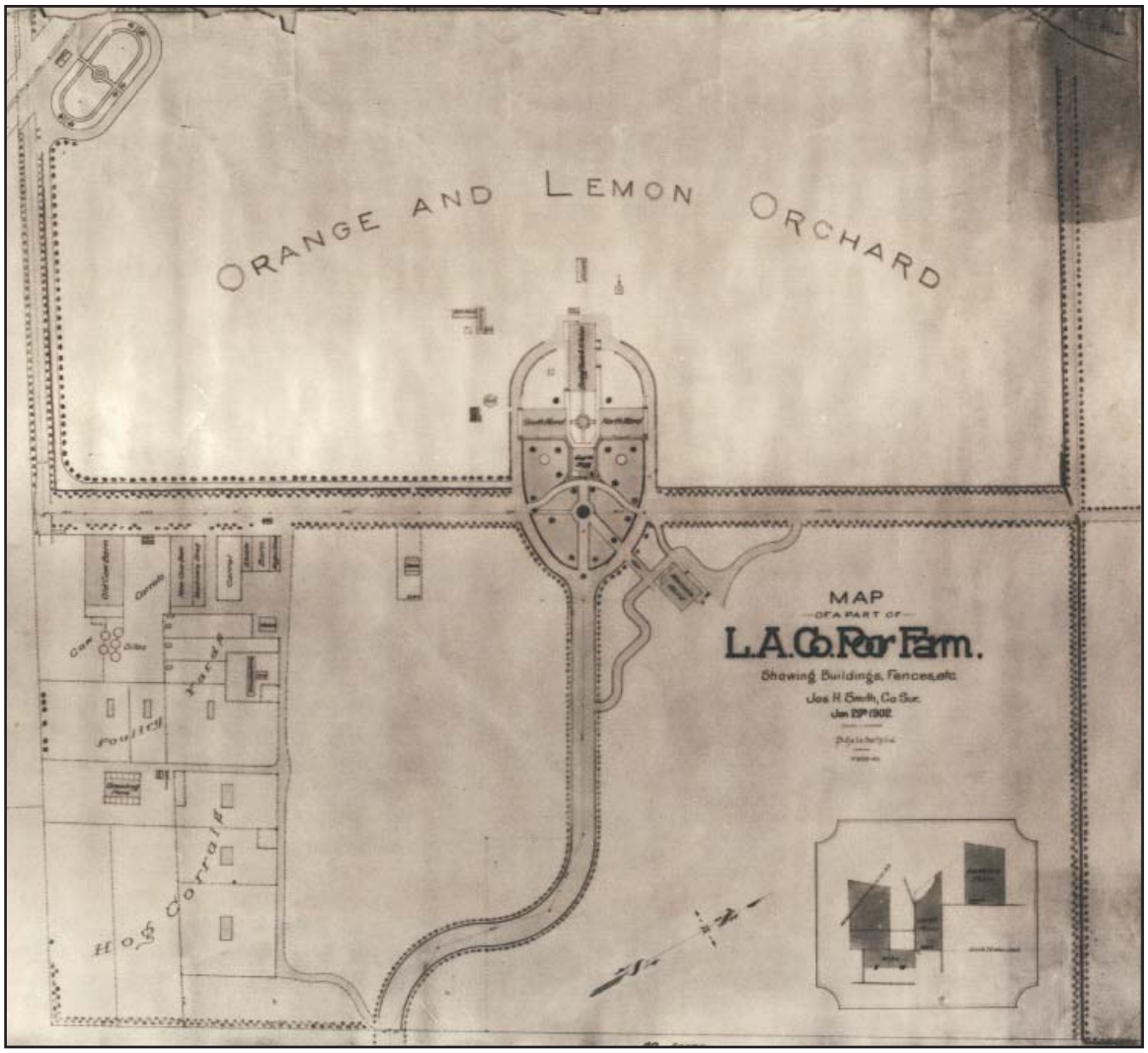
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[122] *Los Angeles Times*. 14 June 1891. "The County Farm. Where the Poor of Los Angeles are Cared For," p. 10.

[123] *Los Angeles Times*. 14 April 1900. "Alleviating Misery: Many Improvements Made In the County Hospital," p. 112.

[124] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 62–63.

[125] Landscape Greenhouse Quarters Historic Photograph. 1917. Los Angeles: University of Southern California. Box 27, Folder 37.



SOURCE: Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988*. Downey, CA

FIGURE 4.2.2.1-1
1902 Map of the Los Angeles County Poor Farm

Over the years, the maintenance of the grounds of County Farm continued to be supplemented by the patients. The able-bodied general ward patients kept steady jobs and supplied much of the man power needed to keep the South Campus operating smoothly. In addition to working at the farm and dairy, approximately 125 patients worked on the landscaping crews, keeping specific areas of the South Campus landscape manicured and clean of debris.[126]

The maintenance of the grounds was made a priority by Superintendent Harriman in the 1920s when he reserved a significant portion of the annual budget to maintain and improve the landscape, through the purchase of trees, shrubs and irrigation systems. Believing that the setting offered patients beneficial healing powers, Harriman insisted that the landscape of the property be maintained at the same level of excellence as that reflected in the newer buildings at the County Farm. As Harriman explained in the Rancho Los Amigos Annual Report of 1928:

> We believe that the surroundings are far more pleasant and the actual feeling of "home" more evident than in many smaller institutions. The buildings are well lighted and ventilated, and all are provided with steam heat, hot and cold water service and facilities of every kind. They are located in a park-like setting of flowers and shrubbery, with drives bordered by magnificent 45-year old eucalyptus trees. The Farm employees are constantly on the alert to improve the comfort and happiness of the sick and unfortunate in their care with a sincere and helpful spirit.[127]

During the 1920s, the east-west running entrance into the Poor Farm gained prominence with the construction of the new Administration Building in 1926 (LACO No. 1100). The street was given the name Administration Drive (later named Consuelo Street) and officially became the primary entranceway into the intuition. Administration Drive was distinguished by a recognizable bow, which began east near the entrance to the Administration Building and bent northwest around the east and north elevations of the building. Two circular driveways landscaped with mature trees and lawns filled the space created by the curvature of Consuelo Street. This organized lawn setting created a distinct separation between the public Administration Building and the private inmate and support buildings located farther west on Consuelo Street toward the center of South Campus. These characteristics are still visible today.

In 1929, an ornamental courtyard was created in the center of South Campus after the original Administration Building was demolished. At this time, a fifty-one foot-long fish pond was built near the front of the Auditorium (LACO No. 1264) where two cast iron tiered fountains were located. This area was further enhanced by an 18′ × 12′ wrought-iron gazebo (LACO No. 1265) which was added to the space circa 1933. Large flower beds were planted, and the walkways were paved with flagstone slabs.[128] A sundial was also positioned to the rear of the gazebo. These amenities must have complemented the impressive roots and branches of the Moreton Bay fig tree planted in the same area around the turn-of-the-century. This new, public green space was enjoyed by the inmates, their visitors, and staff, and created a focal point for the historic traffic circle at the intersection of Erickson Avenue and Consuelo Street. The curvature of these streets around the

[126] Foster, Henry. 5 October 1959. "History of the Rancho." Los Angeles: University of Southern California Archives. Box 25, Folder 57.

[127] Harriman, William R. "1927–1928 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[128] Fliedner, Colleen Adair. 1990. *Rancho Los Amigos Medical Center Centennial, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, pp. 143–144.

traffic circle has remained generally in the same configuration to the present day, except for a slight alteration to the western edge of the traffic circle when Erickson Avenue (then Horton) was widened circa 1950.

By the end of the 1920s, landscape improvements at the farm included one mile of paved roads, one and one-fourth miles of decomposed granite roads, cast-iron sewer piping, and hundreds of acres of new lawns, gardens, trees, curbs, walkways and fencing.[129,130] Despite the lull in building construction caused by the Depression, improvements to the landscape at the Farm continued throughout the early 1930s. Acres of new lawn were planted throughout the property and an automatic sprinkler system was installed. Street lights were erected along Golondrinas Street and Dahlia Avenues, illuminating the newly constructed Psychiatric Ward Buildings (LACO Nos. 1202 and 1204) and Casa Consuelo (LACO No. 1238).[131]

Superintendent Harriman took great pleasure in the expansion and development of the landscape at the Farm, proudly stating in his 1932–1933 Annual Report:

> As a further step toward mental and physical welfare of the patients, the grounds surrounding their homes are beautifully landscaped and maintained in perfect order and cleanliness at all times. Acres of flower gardens provide cut flowers in abundance and these are used in decorating the wards through the year. Many patients assist trained crews of gardeners in the general care of the lawns and gardens and the propagation of plants, trees and shrubs in the operation of the greenhouse. Around the grounds, numerous benches are placed in the shade of the magnificent eucalyptus trees that have bordered the drives for nearly fifty years. . . . The drab colors so common at many institutions have no place at the Rancho as furniture, interior finishes and trim are decorated in pleasing colors conductive cheerfulness and rest.[132]

Harriman continued to emphasize the importance of the landscaping at Rancho Los Amigos. In 1934, Harriman reported that the eucalyptus trees were maintained at 75 feet tall. The buildings were surrounded in landscaping with lawn and shrubbery and large flower gardens which supplied the various offices and wards with bouquets. The work of landscaping was largely controlled by landscape supervisors with patient labor.[133] By 1935, the landscaping department employed some 24 men.

However, by 1950, the Landscaping Department had been reduced to a full-time staff of 17, who were assisted by 46 patient "helpers." Each day the landscaping team cleaned six miles of streets, hauled away garbage and maintained 56 acres of lawns, flower beds and trees. Thousands of fresh-cut flowers grown in Rancho greenhouses were supplied for special bouquets which were placed

[129] Harriman, William R. "1927–1928 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[130] Harriman, William R. "1929–1930 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[131] Harriman, William R. "1930–1931 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[132] Harriman, William R. "1932–1933 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[133] Harriman, William R. "1934–1935 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

within buildings.[134] Many of the trees that are still present today had been planted by this time, including: Avocado; Bottle Tree; Bunya Bunya; Camphor; Carob; Coast Live Oak; Date Palm; Laurel Fig; Mexican Fan Palm; Morton Bay Fig; Primrose Tree; Queensland Pittosporum; Redwood; and Southern Magnolia.[135] The Moreton Bay fig tree (located on Erickson Avenue in the ornamental lawn in front of the Auditorium) and redwood trees were identified in 1988 as Landmark trees by the City of Downey.[136]

By 1960, the eucalyptus trees that lined Erickson Avenue had been removed and the landscaping efforts diminished as the focus of the institution began to be centered on the new medical buildings constructed north of Imperial Highway in the area now called North Campus. By the 1980s, many of the buildings located in South Campus were being abandoned and the surrounding landscape began to deteriorate, leaving only vestiges of the original park-like environment.

4.2.2.2 Architectural Character

From the founding of the Los Angeles County Poor Farm in 1887/1888, the institution's built environment has consistently evolved. During the farm's early history, there were few buildings, allowing the majority of the property to be devoted to farming activities. As the patient population increased, a demand for administrative offices, additional ward space, dining facilities, and staff housing initiated several periods of growth and expansion. The largest period of construction occurred from the 1920s through the early 1930s when the "poor farm" was transitioning from a rehabilitative care facility for indigents into a hospital to house long-term invalid patients known as Rancho Los Amigos Medical Center.

The first buildings constructed at the Poor Farm in 1887/1888 were designed by the preeminent Los Angeles architectural firm of the time, Kysor, Morgan, and Walls and lesser-known architect Jacob Friedlander.[137] The first four buildings were the North and South Wards, Dining Hall (Refectory), and the office, residence for the physician and superintendent, and laboratory (Administration Building).[138] Three of the buildings were designed in a brick Victorian-era institutional style, and the fourth was a simple wood-framed building with Victorian-era detailing.[139] A continuous veranda connected the buildings, and framed a garden courtyard, featuring lawns, rose garden, and aviary. Out of these four initial buildings, only the aviary (LACO No. 1312) survives today, albeit in an altered condition, and remains the oldest surviving structure on the Rancho Los Amigos campus. It is now located in the northwest section of the interior courtyard of the Men's Psychiatric Ward Complex (LACO Nos. 1204 and 1205).

As the farm expanded and additional buildings were constructed, particularly during the first three decades of the 20th century, distinct architectural styles began to emerge, defining the visual character of the campus and identifying the function of the various buildings. Buildings dating from

[134] Harriman, William R. "1949–1950 Annual Report for Rancho Los Amigos." Los Angeles: University of Southern California. Box 22, Folder 13.

[135] Sapphos Environmental, Inc. March 2008. "Historic and Landmark Tree Report." On file at Sapphos Environmental, Inc., Pasadena, CA.

[136] City of Downey Rancho Business Center Specific Plan 88-1.

[137] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, p. 25.

[138] *Los Angeles Times*. 27 February 1889. "The Supervisors," p. 2.

[139] Fliedner, Colleen Adair. 1990. Rancho Los Amigos Medical Center Centennial, 1888–1988. Downey, CA: Rancho Los Amigos Medical Center, pp. 24–25.

this era substantially shape the current architectural landscape of the area of seventy-six buildings identified as the Rancho Los Amigos Historic District. A few appear to have been designed by the office of the County Architect, which was headed by Karl Muck during much of the 1920s and 1930s. However, a few of the original plans for the buildings list only that they were constructed under the supervision of the Los Angeles County Mechanical Department, while many other buildings have no existing plans.

The contributing buildings and structures of the Rancho Los Amigos Historic District are primarily vernacular in character and represent five general architectural styles or types: Craftsman and Wood Vernacular, Classical Influence, Spanish Colonial Revival, Brick Vernacular, and Utilitarian. These five styles were typical of the first part of the 20th century and were constructed throughout Southern California architecture.

4.2.2.2.1 Craftsman and Wood Vernacular

The Craftsman style dominated residential architecture in southern California from circa 1902 through the mid 1920s. Rooted in the principles of the late-19th-century Arts and Crafts movement in England, the Craftsman aesthetic and ideals were developed and promoted in the United States by furniture maker Gustav Stickley and his 1901 magazine *The Craftsman*. Stickley envisioned residences for people of moderate means designed as a unified whole, including furniture and fittings. He discounted the ornamentation of the Victorian-era and preferred a much more simplified style that accented the beauty of natural materials such as wood and stone. He stated in the first issue of *The Craftsman*, "Beauty does not imply elaboration or ornament."[140] Drawing inspiration from English architect and designer William Morris, Stickley published plans and construction drawings in *The Craftsman* that epitomized his philosophy. The dissemination of his drawings exerted a strong influence on the development of the Craftsman Style.

Craftsman architectural design reached its apogee with the work of two brothers, Charles S. Greene and Henry M. Greene, who practiced together in Pasadena from 1893 to 1914 and with the work of a handful of other architects primarily located in the vicinity of the Arroyo Seco and the San Francisco Bay Area. The Greene brothers created an architectural style that combined elements of Stickley's influence, the Stick Style, the English Arts and Crafts Movement, and, especially, Japanese techniques of joinery.[141] The concurrent work of Frank Lloyd Wright also is said to have been an influence. Advocates of total design and craftsmanship, the Greenes also lavished attention on interior finishes and details and furniture. Some of the Greene's most notable commissions include the Gamble House, the Blacker House, and the Duncan-Irwin House, all located in Pasadena.

The work of the Greene brothers and other Craftsman style architects was widely published in both professional and popular journals. This exposure fueled the popularity of the Craftsman style, which spread quickly throughout the country. Craftsman house plans became easily accessible to the middle-class through pattern books and mail-order houses such as Sears, Roebuck & Company, and Montgomery Ward's. Affordable and easily constructed from locally available materials, one-to-one and a half-story Craftsman homes became known as bungalows and dominated middle-class residential design during the first quarter of the 20th century. Although some Craftsman homes were two stories in height, large-scale versions of Craftsman houses were rare except in

[140] Roth, Leland M. 1980. *A Concise History of American Architecture*. New York: Harper & Row, p. 198.

[141] Roth, Leland M. 1980. *A Concise History of American Architecture*. New York: Harper & Row, p. 211.

California.[142] A limited number of commercial and public buildings also reflect Craftsman influences.

Craftsman buildings utilize materials such as wood, stone, and brick in a natural-appearing state. Structural features were left exposed and exploited for their decorative qualities. Earth tones were favored, integrating the building with the surrounding landscape. Horizontality was emphasized through low, ground-hugging massing, employment of broadly pitched, overhanging roofs, and utilization of wood siding and flat trim laid in continuous bands. Often, the lower portion of the exterior walls or porch supports was battered or tapered so as to be heavier at ground level. Capacious front porches were nearly ubiquitous features, often overlooked by generous expanses of windows clustered in groups. A combination of window types was used, with casement windows and fixed windows commonly appearing on the facade and double-hung sash on the sides and rear. Entries typically were characterized by oversized, heavy, wood-paneled doors. Craftsman interiors were distinguished by built-in features such as bookshelves, cabinets and hutches with leaded glass doors, and seating nooks and by the use of wood for picture rails, continuous header moldings, window and door casings, and doors.

Vernacular architecture is defined as "a mode of building based on regional forms and materials."[143] Commonly, a wood vernacular building would be constructed to reflect the design trends of the region in which it was located. In Southern California, a common 20th-century treatment for wood houses was to add modest Craftsman details, such as exposed rafters and beams, wide window and door trim, and a Craftsman front door. The character-defining features of a Wood Vernacular style building include wood framing and cladding, one or two story height, low- to moderate-pitched roof, and a partial- or full-width porch.

4.2.2.2.2 Classical Influence

Numerous architectural styles throughout Western history have been influenced by the temples, villas, and other buildings of ancient Greece and Rome, as reinterpreted by the Renaissance. Classicism has played a central role in American architecture as well, contributing to many of the dominant architectural styles throughout the nation's history. According to Poppeliers, Chambers, and Schwartz in *What Style is it? A Guide to American Architecture*, the mass appeal of Classicism when America was a young country "undoubtedly was the often expressed sentiment that America, with its democratic ideals, was the spiritual successor of ancient Greece, a feeling evident not only in the architecture but also in the very names of newly established towns—Athens, Sparta, Ithaca—from Georgia to Maine and throughout the Midwest."[144] Political decision makers and architects agreed that the Greek ideals of democracy, beauty, and simplicity were considered fitting for many buildings in the new nation. Classical architecture quickly became the prevalent style for churches, banks, civic buildings, and residences.

The sense of order implied by Classicism appealed to many early architects who felt it was important to study classical forms to understand and practice architecture as a discipline. The identifying characteristics commonly associated with the Classicism of antiquity include the following: a temple-style porch supported by large columns, symmetrical facade, a low-pitched roof, a heavy cornice and frieze under the eaves, and decorative column capitals. Rediscovered

[142] McAlester, Virginia, and Lee McAlester. 1994. *A Field Guide to American Houses*. New York: Alfred Knopf, p. 454.

[143] Harris, Cyril M. 1993. *Dictionary of Architecture and Construction*. 2nd ed. New York: McGraw Hill, p. 884.

[144] Poppeliers, John C., Chambers, S. Allen Jr., and Schwartz, Nancy B. 1983. *What Style Is It? A Guide to American Architecture*. Washington, DC: Preservation Press, p. 36.

and reinterpreted during the Renaissance, the Classical vocabulary that was inherited by American architects also included balanced, symmetrical facades; horizontal division of buildings corresponding to base, shaft, and capital; vertical divisions articulated by piers or pilasters; decorative details such as pedimented doors and windows, dentils, quoins, and pilasters; and occasionally colonnaded one-story (and less commonly, two-story) entrance porches. Numerous architectural styles throughout American history have reflected this legacy, from the literal Classical Revival of Thomas Jefferson's Virginia State Capitol to the simple, ubiquitous Colonial Revival bungalow of the early 1920s.

With the mass industrialization of the late-19th-century, large-scale commercial and industrial buildings were constructed featuring Classical detailing. This new trend carried over into the 20th century. Architects and contractors gave industrial and commercial buildings a clear sense of order and unity by employing the Classical styles, especially those that emphasized balance, symmetry, and restraint. This also allowed a uniformed style to develop for buildings associated with a distinct usage or company affiliation. Classicism lost its popularity in the mid–20th century, when historicism was rejected in favor of the new International Style. By the 1960s, however, some contemporary designers embraced the symmetry, clarity of hierarchy, and geometrically pure massing of the Classical, producing buildings in the New Formalism style.[145] In the 1970s, architects such as Michael Graves and Philip Johnson led a new revival of interest in Classicism.

The character-defining features of a Classical building include the following: a symmetrical facade; a low-pitched gabled or hipped roof or a flat roof; pediments and parapets at the roof line; wide cornice and a frieze under the roof eaves; temple-style front with columns; decorative column capitals; symmetrical fenestration of windows (commonly double-hung); pedimented and/or segmental arched doors and windows; paneled wood doors, occasionally with decorative glazing and trim; and decorative details such as dentils, quoins, pilasters, belt courses, and blind arcades. Vernacular interpretations of Classicism often pared these features down to a mere suggestion but retained the essential balance and form of the more high style examples.

4.2.2.2.3 Spanish Colonial Revival

From the 17th century until 1821, the southwestern portion of the United States was Spanish territory. The domestic dwellings constructed during the Spanish period exhibited few decorative or stylistic details and were built out of necessity rather than luxury. The dwellings were commonly one-story, with a low-pitched roof covered in thatch or flat roof with parapet, and thick masonry walls of adobe brick or rubble stone covered in protective stucco. There were usually multiple exterior door openings which opened onto long, narrow porches, and a minimal number of small window openings protected by shutters. It wasn't until the United States opened their trade routes in 1823 that prosperity reached the inhabitants of these dwellings and Anglo immigrants began altering the simple buildings with wood decorative details such as carved posts (particularly from the Greek Revival Style), double-hung windows, and the addition of a framed, shingled roof.[146,147] This style continued until the 1880s when the spread of the railroad provided easy access to milled lumber, and the adobe building style declined in favor of wood-framed houses.

[145] Gebhard, David, and Robert Winter. January 1977. *A Guide to Architecture in Los Angeles and Southern California*. Salt Lake City, UT: Gibbs Smith, pp. 706–707.

[146] McAlester, Virginia, and Lee McAlester. 1994. *A Field Guide to American Houses*. New York: Alfred Knopf, p. 454.

[147] Harris, Cyril M. 1993. *Dictionary of Architecture and Construction*. 2nd ed. New York: McGraw Hill, pp. 129–130.

In 1915, architect Bertram Goodhue designed the Panama-California Exposition in San Diego, California. Goodhue was an influential proponent of Spanish Colonial architecture adapted to the 20th century. He felt that the climate and cultural heritage of the Southwest was well suited to the style. Goodhue is considered instrumental in bringing the newly created Spanish Colonial Revival Style to California, Arizona, Texas, and in Florida, all regions where original Spanish Colonial building occurred and continued into the 19th century.[148] Due to the popularity of his exhibit, other influential architects began looking directly to Spain for inspiration.

The Spanish Colonial Revival style was popular from the early 1920s until the 1940s. Although the style was prevalent in the southwest and Florida, vernacular examples were located throughout the country. The style was particularly utilized in California, where the idea of Spanish heritage was embraced by many cities who named their streets and communities after Spanish antecedents. In the 1920s when communities were developing planned housing developments to create a uniform appearance, older California cities, such as Santa Barbara and Ojai, "passed ordinances requiring that new downtown buildings conform to the Spanish Colonial Revival style in order to build a tourist trade based on the aristocratic grandee aspects of their Hispanic heritage."[149]

A Spanish Colonial Revival building borrows decorative details from the entire history of Spanish architecture, rather than just the simple dwellings erected during the Spanish period here in the United States. According to McAlester in *A Field Guide to American Houses*, "These may be of Moorish, Byzantine, Gothic, or Renaissance inspiration, an unusually rich and varied series of decorative precedents."[150,151] A Spanish Colonial Revival building was generally asymmetrical in appearance with a round or square tower. The exterior wall surface was almost always stucco, and the roof was a low-pitched gabled roof with little or no overhang sheathed in either Mission tiles or Spanish tiles, or a flat roof with parapet wall. Heavy carved doors were often emphasized by spiral columns, pilaster, carved stonework, or patterned tiles. Many times there was one focal arched fixed window or a grouping of them. Casement windows were also commonly used. Exterior gardens, patios and balconies were a strong feature, as well as arcaded walkways. Additional features include tiled chimney tops, fountains, and brick or tile vents.[152,153]

The character-defining features of the Spanish Colonial Revival style include: exterior wall surface covered in stucco; asymmetrical appearance; round or square towers and cupolas; low-pitched gabled roof with little or no overhang sheathed in Mission or Spanish tiles or flat roof with parapet wall; heavy wood door, commonly carved or paneled, emphasized by spiral columns, pilaster, carved stonework, or patterned tiles; arched focal windows and casement windows; exterior balconies with wrought-iron railings; exterior gardens and patios; arcaded walkways; tiled chimney tops; brick or tile vents; and fountains.

4.2.2.2.4 Brick Vernacular

The technique of using masonry materials to construct buildings was brought by European immigrants to America close to 300 years ago. From the time of its introduction into this country,

[148] Roth, Leland M. 1980. *A Concise History of American Architecture*. New York: Harper & Row, p. 250.

[149] Wright, Gwendolyn. 1981. "Building the Dream: A Social History of Housing in America." Boston, MA: MIT Press, p. 201.

[150] McAlester, Virginia, and Lee McAlester. 1994. *A Field Guide to American Houses*. New York: Alfred Knopf, p. 454.

[151] Harris, Cyril M. 1993. *Dictionary of Architecture and Construction*. 2nd ed. New York: McGraw Hill, p. 417.

[152] McAlester, Virginia, and Lee McAlester. 1994. *A Field Guide to American Houses*. New York: Alfred Knopf, p. 454.

[153] Harris, Cyril M. 1993. *Dictionary of Architecture and Construction*. 2nd ed. New York: McGraw Hill, pp. 417–418.

brick has consistently been one of the most popular building materials and has played a large role in the evolution of American architecture. Brick provided a much stronger and more fire-resistant alternative to wood, as well as offered additional insulation against the weather. It has been used in conjunction with various architectural styles in most parts of the country for all types of buildings, from elaborate residences and commercial edifices, to modest houses, Main Street commercial buildings, and vernacular farm and industrial buildings.

One of the most common uses for brick in the late 19th and early twentieth centuries was the application of the material to large-scale commercial, institutional, and industrial buildings. Due to the development of the steel frame in the mid-1800s, architects were able to rethink the idea of building height and scale.[154] In this new age of industrial advancement, buildings were constructed to serve the growing uses of the business, industrial, and medical industries. "Brick Vernacular" was used to describe these brick buildings that were designed to support their function rather than make an architectural style statement.

The overall appearance of a Brick Vernacular building tended to be very simple and largely devoid of decorative ornamentation. The character-defining features include the following: brick exterior walls, often with "face" brick utilized for the public facade, and rougher, more random brick for the sides and rear; one to three stories in height; flat roof with parapet; windows arranged in a linear fenestration pattern; segmental arched window and door openings with double- or triple-header brick rows above; wood-paneled doors; and limited classical detailing such as cornices, friezes, piers, quoins, or stringcourses, sometimes highlighted by the use of glazed or colored brick.

4.2.2.2.5 Utilitarian

"Utilitarian" is not really a style at all; it is an approach to construction predicated on function rather than appearance and as such cannot not be described in terms of a standard set of character-defining features. Utilitarian buildings and structures utilize materials and structure appropriate to the intended use. Although often undistinguished and unremarkable, at its best, the utilitarian building or structure may be an honest and even an elegant expression of function and engineering.

[154] Roth, Leland M. 1980. *A Concise History of American Architecture*. New York: Harper & Row, p. 173.

SECTION 5.0
RESULTS

This section of the Historic District Update Report presents the results of the 2007–2010 Rancho Los Amigos Historic District intensive-level survey update, including evaluation by Sapphos Environmental, Inc. of the extant buildings, structures, and features previously determined to be contributors to the District. The section opens with a summary of the current survey results and comparison with the results of previous surveys. The subsequent discussion characterizes the District in terms of applicable criteria and historic context, period of significance, and integrity. The section concludes with the results of updated evaluations of individual District contributors and noncontributors.

5.1 SUMMARY OF SURVEY RESULTS

As explained in Section 1, Introduction, this historic district update is the third historic resources survey of the Rancho Los Amigos South Campus. The first survey was conducted by Historic Resources Group (HRG) and resulted in the determination of National Register of Historic Places (NRHP) eligibility, and consequent California Register of Historical Resources (CRHR) listing, of the Rancho Los Amigos Historic District.[155] The 1995 survey evaluated a total of 103 buildings, structures and features, and found 78 to be contributors to the significance of the District. The second survey was performed in 2004 by Post/Hazeltine Associates; it resulted in a recommendation of individual eligibility for 11 of the 78 resources evaluated as contributors by HRG and argued that the historic district lacked sufficient integrity to be eligible for listing. Of the 11 resources recommended eligible by Post/Hazeltine Associates, 10 had been previously evaluated by HRG. The current (2007–2010) investigation of 129 buildings, structures, and features determined that there are 68 extant contributors to the District. Table 5.1-1, *Comparison of Historic Resources Survey Results*, itemizes the resources evaluated in support of each of the three surveys.

[155] The Office of Historic Preservation has assigned a California Historical Resource status code of 2S2 to the Rancho Los Amigos Historic District in the California Historical Resources Information System Historic Resources Inventory database. A 2S2 status code is defined as an individual property determined eligible for the NRHP by a consensus through a Section 106 process and listed in the CRHR. Districts are categorized as individual properties (hence the "S"), although district contributors are categorized as contributors and given a "D" status code.

TABLE 5.1-1
COMPARISON OF HISTORIC RESOURCES SURVEY RESULTS

LACO No.	Name[a]	Year Constructed[b]	Contributor Status in 1995 Survey[c]	Significance Status in 2004 Survey[d]	Contributor Status in 2007–2010 Survey[e]
None	Moreton Bay Fig Tree	Circa 1900 (planted)	Contributor	Not addressed	Contributor
589	Vocational Training 215	1941	Noncontributor	Not addressed	Not extant
590	Vocational Training 216	1941	Noncontributor	Not addressed	Not extant
954	Lumber Shed	1942	Contributor	Not significant	Contributor
1100	Administration/Safety Police Building	1926	Contributor	Significant	Contributor
1101	Harriman/ Superintendent's House	1915	Contributor	Significant	Contributor
1121	Staff Cottage	1921	Contributor	Not significant	Contributor
1123	Staff Cottage	1924	Contributor	Not significant	Contributor
1137	Dairyman's House	1907	Contributor	Not significant	Contributor
1163	Generator House	N/A	Not addressed	Not addressed	Noncontributor
1177	Superintendent's Garage	1917	Contributor	Significant	Contributor
1178	Superintendent's Shed	Circa 1917–1922	Not addressed	Significant	Noncontributor
1179	Dairyman's Garage	1926	Contributor	Not significant	Contributor
1184	General Ward 30	1913	Contributor	Not significant	Contributor
1185	General Ward 40	1913	Contributor	Not significant	Contributor
1186	General Ward 50	1916	Contributor	Not significant	Contributor
1187	General Ward 60	1926	Contributor	Not significant	Contributor
1188	General Ward 70	1928	Contributor	Not significant	Contributor
1189	Patient Ward 201	1923	Contributor	Not significant	Contributor
1190	Patient Ward 202	1923	Contributor	Not significant	Contributor
1191	Patient Ward 203	1923	Contributor	Not significant	Contributor
1192	Patient Ward 204	1923	Contributor	Not significant	Contributor
1193	Patient Ward 205	1926	Contributor	Not significant	Contributor
1194	Patient Ward 206	1926	Contributor	Not significant	Contributor
1195	Patient Ward 207	1926	Contributor	Not significant	Contributor
1196	Patient Ward 208	1928	Contributor	Not significant	Contributor
1197	Patient Ward 209	1928	Contributor	Not significant	Contributor
1198	Patient Ward 210	1928	Contributor	Not significant	Contributor
1199	Patient Ward 211	1928	Contributor	Not significant	Contributor
1200	Patient Ward 212	1926	Contributor	Not extant	Not extant
1201	Patient Ward 214	1926	Contributor	Not extant	Not extant
1202	Women's Psychiatric Ward	1924	Contributor	Not significant	Contributor
1203	Women's Psychiatric Ward	1919	Contributor	Not significant	Contributor
1204	Men's Psychiatric Ward	1924	Contributor	Not significant	Contributor
1205	Men's Psychiatric Ward	1907	Contributor	Not significant	Contributor
1207	Work Preparation Center No. 2	1925	Contributor	Not significant	Contributor
1238	Casa Consuelo	1930	Contributor	Significant	Contributor
1239	Toilet Building	1930	Contributor	Not significant	Contributor

LACO No.	Name[a]	Year Constructed[b]	Contributor Status in 1995 Survey[c]	Significance Status in 2004 Survey[d]	Contributor Status in 2007–2010 Survey[e]
1240	Shelter	1930	Contributor	Not significant	Contributor
1241	Linen Room	1932	Contributor	Not significant	Contributor
1242	Toilet Building	1920	Not addressed	Not significant	Contributor
1243	Open Shelter	1916	Contributor	Not significant	Noncontributor
1244	Toilet Room	1916	Contributor	Not significant	Contributor
1245	Linen Room / Snack Bar No. 3	1932	Contributor	Not significant	Contributor
1246	Canopy	1930	Contributor	Not significant	Contributor
1247	Toilet Building	1925	Contributor	Not significant	Contributor
1249	Pump House	N/A	Not addressed	Not addressed	Not extant
1251	Open Shelter	1916	Contributor	Not significant	Noncontributor
1254	Chapel / Computer Center	1908	Contributor	Not significant	Contributor
1256	Toilet Building	1925	Contributor	Not significant	Contributor
1259	Wheelchair Repair	1932	Contributor	Not significant	Contributor
1260	Bathhouse and Ward	1922	Contributor	Not significant	Contributor
1261	Auditorium	1928	Contributor	Significant	Contributor
1262	Dining Room, Kitchen, Staff Room	1913–1926	Contributor	Significant	Contributor
1263	Commissary and Receiving Room	1912	Contributor	Significant	Contributor
1264	Bonita Hall	1932	Contributor	Not significant	Contributor
1265	Shelter	Circa 1933	Contributor	Not addressed	Contributor
1266	Amigos Hall	1928	Noncontributor	Not significant	Noncontributor
1267	Transportation Office	1930	Noncontributor	Not significant	Noncontributor
1268	Storage	1932	Contributor	Not significant	Contributor
1270	Garage	1932	Contributor	Not significant	Contributor
1272	Shed	1930	Contributor	Not significant	Not extant
1275	Workshop	1917	Contributor	Not significant	Contributor
1276	Lock Shop	1913	Contributor	Not significant	Contributor
1277	Garage	1925	Contributor	Not significant	Contributor
1278	Garage and Storage	1924	Contributor	Not significant	Contributor
1279	Garage	1925	Contributor	Not significant	Noncontributor
1280	Garage Storage	1928	Contributor	Not significant	Contributor
1283	Trunk Storage	1923	Contributor	Not significant	Contributor
1284	Water Tanks	Unknown	Noncontributor	Not significant	Noncontributor
1286	Garage/Storage	1920	Contributor	Not significant	Contributor
1287	Oil and Storage	1909	Contributor	Not significant	Contributor
1290	Shelter	1952	Noncontributor	Not significant	Noncontributor
1292	Pump House	1932	Noncontributor	Not addressed	Noncontributor
1295	Kitchen and Dining Building	1927	Contributor	Not significant	Contributor
(1300)[9]	Smoke Stack	1925	Contributor	n/a	n/a
1300	Power Plant	1925	Contributor	Significant	Contributor
1301	Water Tower	1913	Contributor	Significant	Contributor
1302	Shop, Laundry, Ice Plant	1909–1911	Contributor	Significant	Contributor

LACO No.	Name[a]	Year Constructed[b]	Contributor Status in 1995 Survey[c]	Significance Status in 2004 Survey[d]	Contributor Status in 2007–2010 Survey[e]
1312	Aviary	1888	Contributor	Not significant	Contributor
1333	Shed	1931	Contributor	Not significant	Not extant
1334	Vivarium	1926	Contributor	Not significant	Not extant
1335	Brooder House / Vivarium Annex	1929	Contributor	Not significant	Contributor
1352	Train Station	1907	Contributor	Not extant	Not extant
1353	Greenhouse	Unknown	Not addressed	Not significant	Noncontributor
1355	Greenhouse	1926	Not extant	Not extant	Not extant
1356	Tool House	1926	Contributor	Not significant	Contributor
1357	Landscape Office	1938	Contributor	Not significant	Contributor
1373	Grain Tank	N/A	Not addressed	Not significant	Noncontributor
1374	Grain Tank	N/A	Not addressed	Not significant	Noncontributor
1379	Garage	1929	Contributor	Not significant	Contributor
1464	Shed	1945	Noncontributor	Not significant	Noncontributor
1991	Shed	N/A	Not addressed	Not significant	Noncontributor
2434	Shed, Men's Gymnasium	1949	Noncontributor	Not significant	Noncontributor
2435	Patient Recreation Shed	1949	Noncontributor	Not significant	Noncontributor
2436	Classroom Hut/Shed	1949	Noncontributor	Not significant	Noncontributor
2437	Metal Shed	1949	Noncontributor	Not significant	Noncontributor
2492	Toilet Room	1948	Noncontributor	Not significant	Noncontributor
2494	Shed	Unknown	Not addressed	Not addressed	Noncontributor
2637	Old Laundry	N/A	Not addressed	Not significant	Noncontributor
2677	Post Office	1949	Noncontributor	Not significant	Noncontributor
3020	Bus Stop	N/A	Not addressed	Not addressed	Noncontributor
3021	Bus Stop	N/A	Not addressed	Not addressed	Noncontributor
3022	Bus Stop	N/A	Not addressed	Not addressed	Noncontributor
3348	Garbage Can Room	1951	Noncontributor	Not significant	Noncontributor
3368	Shed	N/A	Not addressed	Not addressed	Noncontributor
3390	Prosthetic Shop	1953	Noncontributor	Not significant	Noncontributor
3591	Warehouse	N/A	Not addressed	Not significant	Noncontributor
3592	Chapel	N/A	Not addressed	Not addressed	Noncontributor
3820	Loading Dock	1954	Noncontributor	Not significant	Noncontributor
4118	Garage	Post-1965	Contributor	Not significant	Noncontributor
4121	Garage	1926	Contributor	Not significant	Contributor
5513	Station 18	N/A	Not addressed	Not addressed	Noncontributor
5547	200,000 Gallon Tank	1966	Noncontributor	Not significant	Noncontributor
5548	Steam Plant	1966	Noncontributor	Not significant	Noncontributor
5593	Time Clock Shelter	N/A	Not addressed	Not significant	Noncontributor
5750	Work Preparation Center No. 1	Unknown	Noncontributor	Not extant	Not extant
5793	Electrical Distribution Panel	N/A	Not addressed	Not addressed	Noncontributor
5798	Electrical Station 16	N/A	Not addressed	Not addressed	Noncontributor
5799	Electrical Station 4C	N/A	Not addressed	Not addressed	Noncontributor

LACO No.	Name[a]	Year Constructed[b]	Contributor Status in 1995 Survey[c]	Significance Status in 2004 Survey[d]	Contributor Status in 2007–2010 Survey[e]
5801	Generator House	N/A	Not addressed	Not addressed	Noncontributor
6223	Electrical Station	N/A	Not addressed	Not addressed	Noncontributor
6225	Electrical Station	N/A	Not addressed	Not addressed	Noncontributor
6407	Unknown	N/A	Not addressed	Not addressed	Noncontributor
7000	Butler Building	Unknown	Noncontributor	Not addressed	Noncontributor
7704	Facilities Management Metal Building	1992	Not addressed	Not addressed	Noncontributor
None	Credit Union	Unknown	Noncontributor	Not addressed	Not extant
None	Family Home	N/A	Not addressed	Not addressed	Noncontributor
None	Family Home	N/A	Not addressed	Not addressed	Noncontributor
Unknown	Shed	N/A	Not addressed	Not addressed	Noncontributor
TOTAL			**78 Contributors**	**11 Potentially Eligible**	**68 Eligible**

KEY: n/a = not applicable; N/A = survey data not available.

NOTE:

a. Names used in this table to identify contributing resources are based on the results of the current survey and correlate with the buildings' historic use and name and may contradict previously used resource names. However, the LACO numbers have not changed.

b. Construction dates used in this table are based on the results of the current survey and were estimated using historical aerials, maps, and historical narratives. The year constructed dates may contradict previously estimated construction years.

c. The 1995 survey identifies the Smoke Stack (with no LACO No.) as a separate individual resource. The 2004 and 2007 survey lists the Power Plant and Smoke Stack as a single resource, under one LACO number (LACO No. 1300). This difference results in a discrepancy of one in the total number of buildings within the Historic District.

d. The 1995 survey identifies the Smoke Stack (with no LACO No.) as a separate individual resource. The 2004 survey lists the Power Plant and Smoke Stack as a single resource, under one LACO number (LACO No. 1300). This difference results in a discrepancy of one in the total number of buildings within the Historic District.

e. The 1995 survey identifies the Smoke Stack (with no LACO No.) as a separate individual resource. The 2007 survey lists the Power Plant and Smoke Stack as a single resource, under one LACO number (LACO No. 1300). This difference results in a discrepancy of one in the total number of buildings within the Historic District.

5.1.1 1995 Survey

During the review of the 1995 survey records, it was noted that the documentation contains slight discrepancies between the reported total number of contributing resources and the actual number of District contributors. The Historic Resources Inventory forms prepared in support of the 1995 survey stated that 102 buildings, structures, and features were identified within the boundaries of the District. Of the 102, 76 were found to be contributors to the District, 23 were identified as noncontributors, 2 were not surveyed,[156] and 1 was no longer extant at the time of the survey. In actuality, the 1995 survey results indicate that 103 buildings, structures, and features were identified within the District: 78 were identified as district contributors, 22 were identified as noncontributors, 2 were not surveyed,[157] and 1 was determined to be no longer extant.

The additional discrepancy of 1 contributor is the result of a reporting error in the original 1995 survey, which listed the Smoke Stack as a separate resource. Subsequent research prepared as part of the 2007–2010 District analysis revealed that this structure, although freestanding, is not a separate resource but is actually part of the Power Plant (LACO No. 1300) constructed in 1925. Therefore, the 2004 and 2007–2010 survey data and reports count the Smoke Stack as part of the Power Plant (LACO No. 1300) and not as a separate resource. Table 5.1-1 and Figure 1.3.1-1 itemize and map the contributors and noncontributors listed in the 1995 survey, identified by LACO numbers.

5.1.2 2004 Survey

A review of the 2004 Post/Hazeltine Associates report found that of the 11 buildings, structures, and features identified as being potentially individually eligible for listing in the NRHP, 1 was not identified in the 1995 survey. The 2004 survey listed the Superintendent's Shed (LACO No. 1178) as being potentially eligible for listing in the NRHP on an individual basis; however, the building was not surveyed in 1995 and was never listed in the CRHR as a contributor to the District. Table 5.1-1 and Figure 1.3.2-1 itemize and map the contributors and noncontributors listed in the 2004 survey, identified by LACO numbers.

5.1.3 2007–2010 Intensive-Level Survey Update

The 2007–2010 survey update concluded that there are 68 extant Historic District contributors (Table 5.1-1 and Figure 5.1.3-1, *2007–2010 Survey Results*). Of the 78 original contributing resources identified in the 1995 survey,

- 6 buildings, structures, and features are no longer extant.[158] These include Patient Wards 212 and 214 (LACO Nos. 1200 and 1201), which were removed circa 2001; the 1930 shed and 1931 shed (LACO Nos. 1272 and 1333); the Vivarium (LACO No. 1334); and the Train Station (LACO No. 1352).

[156] The 1995 survey identified 2 out of 102 buildings as not surveyed: the Greenhouse (LACO No. 1353) and an unknown building (LACO No. 1242).

[157] The 1995 survey identified 2 out of 102 buildings as not surveyed: the Greenhouse (LACO No. 1353) and an unknown building (LACO No. 1242). However, the 2007–2010 survey identified a total of 129 extant buildings, structures, and features on the South Campus, indicating that at least 26 additional buildings, structures, and features on the South Campus were not surveyed and not discussed in the 1995 survey.

[158] It is unknown exactly why the buildings were demolished, as none of the documentation collected in support of the 2007–2010 Historic District analysis indicated why or when the buildings were removed from the property.



FIGURE 5.1.3-1
2007- 2010 Survey Results

- 4 no longer contribute to the significance of the District, three because of loss of integrity (LACO Nos. 1243, 1251, and 1279) and one because of a date of construction that post-dates the period of significance (LACO No. 4118).
- 1 additional building (LACO No. 1242) has been identified as a potential contributor to the District.
- 1 structure (the Smoke Stack) was addressed as a separate resource in 1995, when it should have been included as part of the Power Plant (LACO No. 1300).

In addition, the 2007–2010 survey update revised the evaluation of one of the 11 resources found individually significant in 2004. The Superintendent's Shed (LACO No. 1178) was identified during the 2004 survey as being potentially eligible for the CRHR; however, during the 2007–2008 survey, it was found to lack sufficient historic merit to be characterized as a contributing resource to the District. Because the building was not evaluated as part of the 1995 survey and is not listed as one of the 78 original contributors to the District, this conclusion does not change the total number of extant contributors within the District.

The remaining extant buildings, structures, and features on the South Campus were identified as noncontributors to the Historic District, either because they were previously determined to be noncontributors or because they lack sufficient age, historic association, and/or architectural character to be a part of the District.

5.2 CHARACTERIZATION OF THE HISTORIC DISTRICT

The 1995 survey that resulted in the determination of eligibility of the Rancho Los Amigos Historic District stated that the District is significant under NRHP Criterion A "for its association with the turn-of-the-century health care of Los Angeles County's indigent population and for its later treatment of those in Los Angeles County with chronic illnesses, both mental and physical."[159] The 2007–2010 survey update confirmed the importance of the role of Rancho Los Amigos in evolution of the County welfare and health care systems. In its early years, Rancho Los Amigos, as the Poor Farm, was a response to the homeless problem of the period, housing the poverty-stricken in the most cost-effective manner by making the institution self-sufficient. The Poor Farm was established during a period in American history when the public was increasingly aware of its responsibility towards those less fortunate and as the Progressive Movement gained support; it is no coincidence that Jane Addams Hull House in Chicago was established around the same time, in 1889. With one of its original goals of relieving the existing County hospital of the burden of caring for the indigent, the Poor Farm operated in tandem with the developing County health care system, which had opened its first hospital in 1878. Increasingly, as patients with long-term illnesses were directed to the Poor Farm, the institution became an integral part of that system. The niche that Rancho Los Amigos filled was that of long term care and rehabilitation, particularly for those afflicted with mental illness and later, the victims of the mid-20th-century outbreaks of polio. As one of the historic cornerstones of the County of Los Angeles health care system, Rancho Los Amigos has been critical to the development of what is now the second largest health care system in the nation.

Concurrent with the evolving mission of the institution, its physical plant also grew and changed. The Historic District today retains aspects of each period of Rancho Los Amigo's history. From its

[159] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

founding in the late 19th century, the District incorporates the distinctive curvilinear street plan still evident in the central east part of the campus and the Aviary (LACO No. 1312). A handful of buildings remain that reference the institution's agricultural and livestock operations, including a former stable and hay barn (LACO No. 1283), the farmhouse-like Oil and Storage Building (LACO No. 1287), the Dairyman's House (LACO No. 1137) ,and the Brooder House / Vivarium Annex (LACO No. 1335). Several buildings from the World War I and earlier era are reminders of the self-contained, residential nature of the facility and its growing focus on the treatment of long term illness, including the Superintendent's House (LACO No. 1101), the older wings of the Dining Room, Kitchen, and Staff Room (LACO No. 1262), Commissary (LACO No. 1263), Workshop (LACO No. 1275), the first wing of the Men's Psychiatric Wards (LACO No. 1205), the first Power Plant (LACO No. 1302), the first Chapel (LACO No. 1254), and the first General Wards (LACO Nos. 1184, 1185, and 1186). The growth of the medical campus and is appurtenant support facilities is extensively represented, most prominently by the later General Wards and the Patient Wards (LACO Nos. 1187–1199), Men's and Women's Psychiatric Ward complexes (LACO Nos. 1202–1205 and 1239–1247), Power Plant (LACO No. 1300), Kitchen and Dining Building (LACO No. 1295), Bathhouse and Ward building (LACO No. 1260), Auditorium (LACO No. 1261), Administration Building (LACO 1100), and Casa Consuelo (LACO No. 1238). Although no agricultural fields are still extant, the nearby train tracks are a reminder of the essential proximity of transportation. The importance of landscape design to the concept of the County Farm can still be discerned from the remaining ornamental trees, most prominently a Moreton Bay fig tree, and the ample green space that flanks buildings in the central campus.

Although it is certainly true that numerous buildings have been demolished over the course of the history of Rancho Los Amigos and that a few incompatible buildings have been constructed within the District boundaries (for example, the Butler Building, LACO No. 7000), the Historic District still possesses the physical features necessary to convey its historical importance under Criterion A/1. Containing a range of property types linked by historical and physical development, the District retains sufficient integrity to provide a sense of historic and architectural cohesiveness, particularly with respect to its setting, design, materials, association, and feeling. The 1995 document characterized the District as an intact collection of structures used for health care and social services from 1888–1950, but defined the period of significance as 1888–1945, perhaps in deference to the 50-year requirement of the NRHP. Based on the history of Rancho Los Amigos, and the pivotal role of Superintendent William R. Harriman for most of the first half of the 20th century, extension of the period of significance to 1952, when Harriman stepped down, is suggested.

The 2007–2010 survey also resulted in the conclusion that a small number of buildings at Rancho Los Amigos also appear to be individually eligible for listing in the NRHP/CRHR under Criterion C/3 for architectural merit (LACO Nos. 1100, 1101/1177, 1238, 1262/1263, and 1300–1302.

5.3 DISTRICT CONTRIBUTORS AND NONCONTRIBUTORS

This subsection briefly discusses each of the 129 buildings, structures, and features that were evaluated and provides any new or updated information. Detailed descriptions and statements of significance are incorporated into Appendix A, *Historic Resources Inventory Forms*. Architectural terms used in the descriptions are defined in Appendix B, *Glossary of Terms*.

Moreton Bay Fig Tree

The survey update concluded that the Moreton Bay Fig Tree is a District contributor and has a California Historical Resources (CHR) status code of 2D2.[160] For purposes of the survey update, it was ranked as Key due to its species, visual prominence, age, and representation of the importance of landscape in the design of the County Farm.

Estimated to have been planted circa 1900, the Moreton Bay Fig Tree (*ficus macraphylla*) was measured in 2007 at 10.2 meters in height, with a diameter at breast height of 3.25 meters and a canopy of 36.6 meters. An Australian import, Moreton Bay fig trees were popular as ornamental trees in Southern California from the last quarter of the 19th century through the first quarter of the 20th century. Notable for their impressive size and above ground root system, individual Moreton Bay fig trees have been designated as landmarks in several Southern California communities, including Los Angeles, Santa Monica, Santa Barbara, and San Diego. The City of Downey has recognized this Moreton Bay Fig Tree in the significant tree list incorporated into its General Plan, Downey Vision 2025.

Vocational Training 215 (LACO No. 589)

The survey update concluded that this building, constructed in 1941 and identified as a District noncontributor and excluded from the District boundaries by HRG in 1995, is no longer extant.

Vocational Training 216 (LACO No. 590)

The survey update concluded that this building, constructed in 1941 and identified as a District noncontributor and excluded from the District boundaries by HRG in 1995, is no longer extant.

Lumber Shed (LACO No. 954)

The survey update concluded that the Lumber Shed, constructed in 1942, is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and relatively late date of construction.

Administration / Safety Police Building (LACO No. 1100)

The survey update concluded that the Administration / Safety Police Building, constructed in 1926, is a District contributor and has a CHR status code of 2D2. For purposes of the survey update, it was ranked as Highest, for its importance to the evolution of the County Farm into a medical facility. It is also noteworthy for its association with William Ruddy Harriman, the Superintendent most extensively associated with Rancho Los Amigos, and for its evident architectural ambitions as an example of the Spanish Colonial Revival style. Although the 2004 survey characterized the building as individually eligible to the NRHP under Criterion C (architecture), the replacement of the primary windows on the facade has somewhat compromised its integrity in this regard.

[160] The Office of Historic Preservation defines a 2D2 status code as a contributor to a district determined eligible for the NRHP by consensus through a Section 106 process and listed in the CRHR.

Harriman / Superintendent's House (LACO No. 1101)

The survey update concluded that the Harriman / Superintendent's House, constructed in 1915, is a District contributor and has a CHR status code of 2D2. For purposes of the survey update it was ranked as Highest, for its integrity and historic role in history of Rancho Los Amigos. It is also noteworthy for its association with William Ruddy Harriman, who lived in the house during his extensive tenure as Superintendent. The 2004 survey characterized the building as "an excellent example of the Craftsman style" and therefore individually eligible to the NRHP under Criterion C (architecture). Although the design may not merit the label of "excellent," the house does illustrate several of the distinctive characteristics of the Craftsman style, including horizontal massing, gabled roof configuration, exposed structural elements, incorporation of several capacious porches, and fenestration with generous bands of windows. Given its setting within the County Farm and the City of Downey, the property does appear to also be eligible to the NRHP and CRHR under Criterion C/3.

Staff Cottage (LACO No. 1121)

The survey update concluded that the Staff Cottage, constructed in 1921, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its support function, modest appearance, and relatively hidden location.

Staff Cottage (LACO No. 1123)

The survey update concluded that the Staff Cottage, constructed in 1924, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its support function, modest appearance, and relatively hidden location.

Dairyman's House (LACO No. 1137)

The survey update concluded that the Dairyman's House, constructed in 1907, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its age and association with the agricultural character of the County Farm.

Generator House (LACO No. 1163)

The survey update concluded that this utilitarian structure, estimated to have been constructed after the period of significance and not evaluated in 1995, is not a District contributor. A CHR status code of 6Z is recommended.[161]

[161] The Office of Historic Preservation defines a 6Z CHR status code as found ineligible for NRHP, CRHR, or local designation through survey evaluation.

Superintendent's Garage (LACO No. 1177)

The survey update concluded that the Superintendent's Garage, constructed in 1917, is a District Contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Highest, as a component of the Harriman / Superintendent's House complex.

Superintendent's Shed (LACO No. 1178)

The survey update concluded that the Superintendent's Shed, estimated to have been constructed between 1917 and 1922, is not a District contributor and has a CHR status code of 6Z. The 1995 survey did not evaluate this building. The current study did not discover any information regarding the historic role of the Shed in the evolution of Rancho Los Amigos. Although the 2004 survey recommended the Shed as eligible for the NRHP as a component of the Harriman / Superintendent's House complex under Criterion C, the building has no architectural qualities that would satisfy this criterion.

Dairyman's Garage (LACO No. 1179)

The survey update concluded that the Dairyman's Garage, constructed in 1926, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Low, due to its utilitarian quality and character and secondary association with agricultural activities of the County Farm.

General Ward 30 (LACO No. 1184)

The survey update concluded that General Ward 30, constructed in 1913, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the early years of the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of five nearly identical wards lined up along Erickson Avenue; and its architecture as an example of stripped Classicism.

General Ward 40 (LACO No. 1185)

The survey update concluded that General Ward 30, constructed in 1913, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the early years of the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of five nearly identical wards lined up along Erickson Avenue; and its architecture as an example of stripped Classicism.

General Ward 50 (LACO No. 1186)

The survey update concluded that General Ward 30, constructed in 1916, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the early years of the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of five nearly identical wards lined up along Erickson Avenue; and its architecture as an example of stripped Classicism.

General Ward 60 (LACO No. 1187)

The survey update concluded that General Ward 30, constructed in 1926, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of five nearly identical wards lined up along Erickson Avenue; and its architecture as an example of stripped Classicism.

General Ward 70 (LACO No. 1188)

The survey update concluded that General Ward 30, constructed in 1928, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of five nearly identical wards lined up along Erickson Avenue; and its architecture as an example of stripped Classicism.

Patient Ward 201 (LACO No. 1189)

The survey update concluded that Patient Ward 201, constructed in 1923, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 202 (LACO No. 1190)

The survey update concluded that Patient Ward 202, constructed in 1923, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and

its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 203 (LACO No. 1191)

The survey update concluded that Patient Ward 203, constructed in 1923, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 204 (LACO No. 1192)

The survey update concluded that Patient Ward 204, constructed in 1923, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 205 (LACO No. 1193)

The survey update concluded that Patient Ward 205, constructed in 1926, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 206 (LACO No. 1194)

The survey update concluded that Patient Ward 206, constructed in 1926, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 207 (LACO No. 1195)

The survey update concluded that Patient Ward 207, constructed in 1926, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 208 (LACO No. 1196)

The survey update concluded that Patient Ward 208, constructed in 1928, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 209 (LACO No. 1197)

The survey update concluded that Patient Ward 209, constructed in 1928, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 210 (LACO No. 1198)

The survey update concluded that Patient Ward 210, constructed in 1928, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 211 (LACO No. 1199)

The survey update concluded that Patient Ward 211, constructed in 1928, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the

transition from County Farm into hospital for the treatment of long-term illnesses; its visual prominence as one of a row of eleven nearly identical wards lined up along Descanso Avenue; and its barracks-like appearance as an early 20th-century wood-framed, vernacular building linked to its neighbors by a continuous veranda.

Patient Ward 212 (LACO No. 1200)

The survey update concluded that Patient Ward 212, constructed in 1926 and determined to be a District contributor in 1996, is no longer extant.

Patient Ward 214 (LACO No. 1201)

The survey update concluded that Patient Ward 214, constructed in 1926 and determined to be a District contributor in 1996, is no longer extant.

Women's Psychiatric Ward (LACO No. 1202)

The survey update concluded that the Women's Psychiatric Ward, constructed in 1924, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for chronic illnesses, including mental illnesses; its courtyard plan which was reflective of how the building was used; its visual prominence as one of two large complexes devoted to psychiatric care; and its use of brick vernacular architecture.

Women's Psychiatric Ward (LACO No. 1203)

The survey update concluded that the Women's Psychiatric Ward, constructed in 1919, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for chronic illnesses, including mental illnesses; its courtyard plan which was reflective of how the building was used; its visual prominence as one of two large complexes devoted to psychiatric care; and its use of brick vernacular architecture.

Men's Psychiatric Ward (LACO No. 1204)

The survey update concluded that the Men's Psychiatric Ward, constructed in 1924, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for chronic illnesses, including mental illnesses; its courtyard plan which was reflective of how the building was used; its visual prominence as one of two large complexes devoted to psychiatric care; and its use of brick vernacular architecture.

Men's Psychiatric Ward (LACO No. 1205)

The survey update concluded that the Men's Psychiatric Ward, constructed in 1907, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its direct association with the transition from County Farm into hospital for chronic illnesses, including mental illnesses; its courtyard plan which was reflective of how the building was used; its visual prominence as one of two large complexes devoted to psychiatric care; and its use of brick vernacular architecture.

Work Preparation Center No. 2 (LACO No. 1207)

The survey update concluded that the Work Preparation Center No. 2, constructed in 1925, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its support function at the County Farm and utilitarian, barn-like appearance.

Casa Consuelo (LACO No. 1238)

The survey update concluded that Casa Consuelo, constructed in 1930 as the new Women's Ward, is a District contributor and has a CHR status code of 2D2. For purposes of the survey update, it was ranked as Highest due to its importance to the evolution of the County Farm into a medical facility; its function as a patient care building; and its embodiment of new trends in women's medical care. It also appears eligible for NRHP/CRHR individual listing under Criterion C/3 as a good example of the Spanish Colonial Revival style.

Toilet Building (LACO No. 1239)

The survey update concluded that the Toilet Building, constructed in 1930 within the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203), is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and location.

Shelter (LACO No. 1240)

The survey update concluded that the Shelter, constructed in 1930 within the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203), is a District contributor and has a CHR status code of 2D2. Although deteriorated, the structure retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, support function, and location.

Linen Room (LACO No. 1241)

The survey update concluded that the Linen Room, constructed in 1932 within the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203), is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey

update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and location.

Toilet Building (LACO No. 1242)

The survey update concluded that the Toilet Building, constructed in 1930 within the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203), is a District contributor and has a CHR status code of 3D. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and location. As noted above, this building was not evaluated in either the 1995 or 2004 surveys.[162] However, it is comparable in history, function, and integrity as well as location, setting, design, materials, workmanship, feeling, and association, with other toilet buildings within the psychiatric ward complexes that have been determined eligible for the NRHP and listed in the CRHR.

Open Shelter (LACO No. 1243)

The survey update concluded that the Open Shelter, constructed in 1916 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), determined eligible for the NRHP in 1996 and listed in the CRHR as a District contributor, has lost integrity and can no longer be identified as a significant resource. It is missing 50 percent of one of its two character-defining features, the canopy. A revised CHR status code of 6Z is recommended.

Toilet Room (LACO No. 1244)

The survey update concluded that the Toilet Room, constructed in 1916 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and location.

Linen Room / Snack Bar No. 3 (LACO No. 1245)

The survey update concluded that the Linen Room / Snack Bar No. 3, constructed in 1932 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and location.

Canopy (LACO No. 1246)

The survey update concluded that the Canopy, constructed in 1930 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), is a District contributor and has a CHR status code of 2D2. Although deteriorated, the structure retains sufficient integrity to continue to

[162] This appears to have been an unintentional oversight in the 1995 survey itemization of contributors, since the building is illustrated in one of the accompanying photographs, identified, and labeled "contributing."

contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, support function, and location.

Toilet Building (LACO No. 1247)

The survey update concluded that the Toilet Building, constructed in 1925 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance, secondary support function, and location.

Pump House (LACO No. 1249)

The survey update concluded that this resource, which was mistakenly described in the 2004 survey as a building, is actually an installation of large pipes that run underground within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205) and is not a contributor to the Historic District. A CHR status code of 6Z is recommended.

Open Shelter (LACO No. 1251)

The survey update concluded that the Open Shelter, which the 1995 survey estimated had been constructed in 1916, was apparently partially or completely replaced in circa 1960, and therefore no longer has sufficient integrity to contribute to the significance of the District. A revised CHR status code of 6Z is recommended.

Chapel / Computer Center (LACO No. 1254)

The survey update concluded that the Chapel / Computer Center, which was constructed in 1907 and added to sometime after World War II, is a District contributor and has a CHR status code of 2D2. Although altered and moved a short distance to its present location in 1919, the original wing of the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Medium, due to its important role as the original, purpose-built chapel at Rancho Los Amigos.

Toilet Building (LACO No. 1256)

The survey update concluded that the Toilet Building, constructed in 1925, is a District contributor and has a CHR status code of 2D2. Although somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked Low, due to its secondary support function and utilitarian appearance.

Wheelchair Repair (LACO No. 1259)

The survey update concluded that the Wheelchair Repair building, constructed in 1932, is a District contributor and has a CHR status code of 2D2. Although deteriorated and somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked Low, due to its support function and utilitarian appearance.

Bathhouse and Ward (LACO No. 1260)

The survey update concluded that the Bathhouse and Ward, constructed in 1922, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Key, due to its importance to the mission of the facility; its role as a patient services building; the stripped classicism of its design, which mirrors that of the nearby General Wards; and its prominent location in the center of the District.

Auditorium (LACO No. 1261)

The survey update concluded that the Auditorium, constructed in 1928, is a District contributor and has a CHR status code of 2D2. Although altered from its original Spanish Colonial Revival styling, the building retains a number of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. However, it does not appear to retain the requisite integrity of design that would be required for individual listing in the NRHP under Criterion C, as was argued by the 2004 survey. For purposes of the survey update it was ranked as Highest, due to its importance to the mission of the facility; its role as a patient services building; and its prominent location in the center of the District.

Dining Room, Kitchen, Staff Room (LACO Nos. 1262 and 1263)

The survey update concluded that the Dining Room, Kitchen, Staff Room, constructed in stages from circa 1912 to 1926, is a District contributor and has a CHR status code of 2D2. Although deteriorated and damaged by fire, the building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Highest, due to its importance to the mission of the facility; role as a patient and staff services building; age; brick vernacular architecture; and prominent location in the center of the District. It is also one of the only buildings in the District that can be associated with a known architect. The Los Angeles firm of Hudson and Munsell drew the plans for the 1913 Dining Room and Kitchen (LACO No. 1263). The building also appears eligible for listing in the NRHP and CRHR under Criterion C/3 as an example of this architectural firm's interpretation of brick vernacular design.

Bonita Hall (LACO No. 1264)

The survey update concluded that Bonita Hall, constructed in 1932, is a District contributor and has a CHR status code of 2D2. Although a substantial rehabilitation in 1975 removed many of its original Spanish Colonial Revival character-defining features, the building does retain other aspects of integrity. However, due to the alterations, for purposes of the survey update, it was ranked Low, despite its importance as one of the few new buildings erected during the Depression and its important role as a recreational patient support facility.

Shelter (LACO No. 1265)

The survey update concluded that the Shelter, constructed circa 1933, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its association with the landscaping theme that informed much of the development of the District and its prominent location on Erickson Avenue.

Amigos Hall (LACO No. 1266)

The survey update confirmed that Amigos Hall, constructed in 1928 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. The building has lost the majority of its character-defining features through alterations. A CHR status code of 6Y is assumed.[163]

Transportation Office (LACO No. 1267)

The survey update confirmed that the Transportation Office, constructed in 1930 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Storage (LACO No. 1268)

The survey update concluded that the Storage building, constructed in 1932, is a District contributor and has a CHR status code of 2D2. Although somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked Low, due to its secondary support function and utilitarian appearance.

Garage (LACO No. 1270)

The survey update concluded that the Garage, constructed in 1932, is a District contributor and has a CHR status code of 2D2. Although somewhat altered, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked Low, due to its secondary support function and utilitarian appearance.

Shed (LACO No. 1272)

The survey update concluded that the Shed, constructed in 1930 and identified as a District contributor in 1995, is no longer extant. A concrete slab foundation and paving is all that remains of this building.

[163] The Office of Historic Preservation defines a 6Y CHR status code as determined ineligible for NRHP listing through Section 106 process. Noncontributors are not currently individually listed in the California Historical Resources Information System Historic Resources Inventory database; therefore, the status code is assumed. A 6Z status code would otherwise apply.

Workshop (LACO No. 1275)

The survey update concluded that the Workshop, constructed in 1917, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its support function, age, and architectural character.

Lock Shop (LACO No. 1276)

The survey update concluded that the Lock Shop, constructed in 1913, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Low, due to its secondary support function and utilitarian appearance.

Garage (LACO No. 1277)

The survey update concluded that the Garage, constructed in 1925, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains the majority of its character-defining features and sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as Medium, due to its support function and architectural character.

Garage and Storage (LACO No. 1278)

The survey update concluded that the Garage and Storage building, constructed in 1924, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its support function and utilitarian appearance.

Garage (LACO No. 1279)

The survey update concluded that the Garage, constructed in 1925 and determined eligible for the NRHP in 1996 and listed in the CRHR as a District contributor, has lost integrity and can no longer be identified as a significant resource. A simple, utilitarian building with plywood walls and a corrugated metal roof, it has lost its original window and door on the primary (west) elevation. Since these features occupy most of the facade, the original appearance of the building is substantially altered. A revised CHR status code of 6Z is recommended.

Garage Storage (LACO No. 1280)

The survey update concluded that the Garage Storage building, constructed in 1928, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its support function and utilitarian appearance.

Trunk Storage (LACO No. 1283)

The survey update concluded that the Trunk Storage building, originally constructed as a horse stable and hay barn, is a District contributor and has a CHR status code of 2D2. Although somewhat altered, its original function is apparent in its appearance. Removal of an original upper story was done following the Long Beach earthquake in 1933 and therefore is considered to be an alteration that has acquired significance in its own right. Thus, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Medium, due to its association with the former livestock operations at the County Farm and its architectural character.

Water Tanks (LACO No. 1284

The survey update confirmed the water tanks, installed at an unknown date and identified as a District noncontributor in 1995, do not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Garage / Storage (LACO No. 1286)

The survey update concluded that the Garage / Storage building, constructed in 1920, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its support function and utilitarian appearance.

Oil and Storage (LACO No. 1287)

The survey update confirmed that the Oil and Storage building, constructed in 1909 as in connection with dairy operations at the County Farm, is a District contributor and has a CHR status code of 2D2. Although somewhat altered, it continues to resemble an early 20th-century farmhouse. The building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Medium, due to association with the former dairy at the County Farm; its age; and its architectural character.

Shelter (LACO No. 1290)

The survey update confirmed the shelter, constructed in 1952 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Pump House (LACO No. 1292)

The survey update confirmed the Pump House, constructed in 1932 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Kitchen and Dining Building (LACO No. 1295)

The survey update confirmed that the Kitchen and Dining Building, constructed in 1927, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update it was ranked as "Key," due to its importance to the functioning of Rancho Los Amigos as it transitioned into a full-time medical facility and the stripped classicism of its design, which echoes the General Wards and Bathhouse and Ward building.

Power Plant and Smoke Stack (LACO No. 1300)

The survey update confirmed that the Power Plant, constructed in 1925, is a District contributor and has a CHR status code of 2D2. The Power Plant retains the majority of its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Highest for several reasons:

- Its critical support function during the evolution, expansion, and consolidation of the County Farm as it transitioned into a medical facility
- Its architectural quality as an embodiment of the distinctive features of the industrial use of the Classical Revival style during the 1920s
- Its prominent location at the northwest corner of Erickson and Descanso Avenues
- Its visual integration with the other components of the historic power plant complex the Water Tower (LACO No. 1301) and the Shop, Laundry, and Ice Plant (LACO No. 1302)
- Its associated vertical element, the freestanding chimney, which, combined with the water cooling tower on the roof of LACO No. 1302 and the Water Tower (LACO No. 1301) provides a distinctive vertical dimension to the Historic District

The Power Plant also appears eligible for NRHP/CRHR individual listing under Criterion C/3 for its industrial interpretation of the Classical Revival style.

Water Tower (LACO No. 1301)

The survey update confirmed that the Water Tower, constructed in 1913, is a District contributor and has a CHR status code of 2D2. The Water Tower retains its character-defining features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Highest, due to its height and visual prominence, which have made it a landmark and symbol of Rancho Los Amigos both to campus users and the surrounding neighborhood; its important support function; its age; and its visual integration with the other components of the historic power plant complex (LACO Nos. 1300 and 1302). As part of the historic power plant complex, the Water Tower also appears eligible for individual listing in the NRHP/CRHR under Criterion C.

Shop, Laundry, and Ice Plant (LACO No. 1302)

The survey update confirmed that the Shop, Laundry, and Ice Plant, constructed in increments between 1909 and 1911 as the original power plant for the County Farm, is a District contributor and has a CHR status code of 2D2. The building retains the majority of its character-defining

features and displays sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Highest for several reasons:

- Its critical support role in the operation, expansion, and evolution of the County Farm
- Its age
- Its exemplification of the brick vernacular style influenced by the Classical Revival
- Its visual integration with the other components of the historic Power Plant complex (LACO Nos. 1300 and 1301)
- Its prominent location at the intersection of Erickson and Descanso Avenues
- The water cooling tower on the roof of the 1911 addition, which is one of three visually significant vertical elements of the historic power plant complex (the other two being the freestanding chimney, part of LACO No. 1300 and the Water Tower, LACO No. 1301)

As part of the historic power plant complex, the Water Tower also appears eligible for individual listing in the NRHP/CRHR under Criterion C.

Aviary (LACO No. 1312)

The survey update confirmed that the Aviary, constructed in 1888 and moved to its present site within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205) sometime after 1924, is a District contributor and has a CHR status code of 2D2. Although moved (albeit during the District's period of significance), the structure retains sufficient integrity to convey its historic association and feeling as the oldest improvement, other than the site plan itself, in the Historic District. For purposes of the survey update, it was ranked as Medium, for its age and association.

Shed (LACO No. 1333)

The survey update concluded that the Shed, constructed in 1931 and identified as a District contributor in 1995, is no longer extant. A concrete slab foundation is all that remains of this building.

Vivarium (LACO No. 1334)

The survey update concluded that the Vivarium, constructed in 1926 and identified as a District contributor in 1995, is no longer extant. A concrete slab foundation and paving is all that remains of this building.

Brooder House / Vivarium Annex (LACO No. 1335)

The survey update concluded that the Brooder House / Vivarium Annex, constructed in 1929, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Medium due to its association with the agricultural operations at the County Farm and its architectural character as an example of brick vernacular design.

Train Station (LACO No. 1352)

The survey update concluded that the Train Station, constructed in 1907 and identified as a District contributor in 1995, is no longer extant.

Greenhouse (LACO No. 1353)

The survey update concluded that the Greenhouse, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Greenhouse (LACO No. 1355)

The survey update concluded that the Greenhouse, constructed in 1926 and not evaluated in 1995, is no longer extant.

Tool House (LACO No. 1356)

The survey update concluded that the Tool House, constructed in 1926, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its support function and utilitarian appearance.

Landscape Office (LACO No. 1357)

The survey update concluded that the Landscape Office, constructed in 1938, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its utilitarian appearance.

Grain Tank (LACO No. 1373)

The survey update concluded that the Grain Tank, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Grain Tank (LACO No. 1374)

The survey update concluded that the Grain Tank, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Garage (LACO Nos. 1379 and 4121)

The survey update concluded that the Garage, constructed in 1929, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its support function and utilitarian appearance.

Shed (LACO No. 1464)

The survey update confirmed that the Shed, constructed in 1945 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Shed (LACO No. 1991)

The survey update concluded that the Shed, constructed at an unknown date outside the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Shed, Men's Gymnasium (LACO No. 2434)

The survey update confirmed that the Shed, Mens's Gymnasium constructed in 1949 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Patient Recreation Shed (LACO No. 2435)

The survey update confirmed that the Patient Recreation Shed, constructed in 1949 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Classroom Hut / Shed (LACO No. 2436)

The survey update confirmed that the Classroom Hut / Shed, constructed in 1949 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Metal Shed (LACO No. 2437)

The survey update confirmed that the Metal Shed, constructed in 1949 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Toilet Room (LACO No. 2492)

The survey update confirmed that the Toilet Room, constructed in 1948 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Shed (LACO No. 2494)

The survey update concluded that the Shed, constructed at an unknown date outside the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Old Laundry (LACO No. 2637)

The survey update concluded that the Old Laundry, constructed at an unknown date outside of the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Post Office (LACO No. 2677)

The survey update confirmed that the Post Office, constructed in 1949 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Bus Stop (LACO No. 3020)

The survey update concluded that the Bus Stop, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Bus Stop (LACO No. 3021)

The survey update concluded that the Bus Stop, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Bus Stop (LACO No. 3022)

The survey update concluded that the Bus Stop, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Garbage Can Room (LACO No. 3348)

The survey update confirmed that the Garbage Can Room, constructed in 1948 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Shed (LACO No. 3368)

The survey update concluded that the Shed, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Prosthetic Shop (LACO No. 3390)

The survey update confirmed that the Prosthetic Shop, constructed in 1953 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Warehouse (LACO No. 3591)

The survey update concluded that the Warehouse, constructed at an unknown date outside the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Chapel (LACO No. 3592)

The survey update concluded that the Chapel, constructed in 1955 and not evaluated in the 1995 survey, does not contribute to the significance of the District. Although it is an intact example of the Spanish Colonial Revival style and served an important function at the facility following closure of the 1907 chapel (LACO No. 1254), it is located on the east side of Dahlia Street outside of the District boundaries and was built after the District's period of significance. A CHR status code of 6Z is recommended.

Loading Dock (LACO No. 3820)

The survey update confirmed that the Loading Dock, constructed in 1954 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Garage (LACO No. 4118)

The survey update concluded that the garage, which was identified as a District contributor in 1995 based on a 1929 construction date, was actually not built until after 1965. It therefore post-dates the District's period of significance. A revised CHR status code of 6Z is recommended.

Garage (LACO Nos. 1379 and 4121)

The survey update concluded that this portion of the Garage, constructed in 1926, is a District contributor and has a CHR status code of 2D2. Although somewhat altered and deteriorated, the building retains sufficient integrity to continue to contribute to the significance of the District. For purposes of the survey update, it was ranked as Low, due to its support function and utilitarian appearance.

Station 18 (LACO No. 5513)

The survey update concluded that Station 18, constructed at an unknown date outside the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

200,000 Gallon Tank (LACO No. 5547)

The survey update confirmed that the 200,000 Gallon Tank, constructed in 1966 and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Steam Plant (LACO No. 5548)

The survey update confirmed that the Steam Plant, constructed in 1966 outside the District boundaries and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Time Clock Shelter (LACO No. 5593)

The survey update concluded that the Time Clock Shelter, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Work Preparation Center No. 1 (LACO No. 5750)

The survey update confirmed that the Work Preparation Center No. 1, constructed at an unknown date and identified as a District noncontributor in 1995, is no longer extant.

Electrical Distribution Panel (LACO No. 5793)

The survey update concluded that the Electrical Distribution Panel, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Electrical Station 16 (LACO No. 5798)

The survey update concluded that Electrical Station 16, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Electrical Station 4C (LACO No. 5799)

The survey update concluded that Electrical Station 4C, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Generator House (LACO No. 5801)

The survey update concluded that the Generator House, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Electrical Station (LACO No. 6223)

The survey update concluded that the Electrical Station, constructed at an unknown date outside the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Electrical Station (LACO No. 6225)

The survey update concluded that the Electrical Station, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Unknown (LACO No. 6407)

The survey update concluded that LACO No. 6407, constructed at an unknown date and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Butler Building (LACO No. 7000)

The survey update confirmed that the Butler Building, constructed at an unknown date (presumed to be after the period of significance) and identified as a District noncontributor in 1995, does not contribute to the significance of the District. A CHR status code of 6Y is assumed.

Facilities Management Metal Building (LACO No. 7704)

The survey update concluded that the Facilities Management Metal Building, constructed in 1992 outside of the District boundaries and not evaluated in the 1995 survey, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Credit Union (LACO No. unavailable)

The survey update confirmed that the Credit Union, constructed at an unknown date and identified as a District noncontributor in 1995, is no longer extant.

Family Home (LACO No. unavailable)

The survey update confirmed that the Family Home, one of two constructed at an unknown date on the east side of Dahlia Street outside of the District boundaries, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Family Home (LACO No. unavailable)

The survey update confirmed that the Family Home, one of two constructed at an unknown date on the east side of Dahlia Street outside of the District boundaries, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

Shed (LACO No. unavailable)

The survey update confirmed that the Shed, constructed at an unknown date on the east side of Dahlia Street outside of the District boundaries, does not contribute to the significance of the District. A CHR status code of 6Z is recommended.

5.4 CONCLUSION

One of the purposes of the 2007–2010 survey update was to reconsider the 1995 findings of eligibility in light of the differing conclusions of the 2004 study. Since the 1996 determination of eligibility was a formal process and resulted in the listing of the Historic District in the CRHR, official action would be required for any changes to be made. Formal delisting from the CRHR requires a public hearing and satisfaction of one of two criteria:[164]

- The historical resource, through demolition, alteration, or loss of integrity has lost its historical qualities or potential to yield information
- New information or analysis shows that the historical resource was not eligible at the time of its listing

The results of the 2007–2010 survey update indicate that, with the exceptions of the recommended modifications to the CHR status codes of 10 of the 1996 District contributors, these criteria have not been met. Changes to the Historic District since the 1996 determination of eligibility have not resulted in the loss of the District's historical qualities. In addition, extensive historical research has confirmed that reasons for the Historic District's significance were, and continue to be, valid.

[164] *California Code of Regulations*. Title 14. Section 4856.

SECTION 6.0
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APPENDIX A
HISTORIC RESOURCES INVENTORY FORMS

***NRHP Status Code:** *2S2*

***Resource Name or #** (Assigned by recorder)**:** *Rancho Los Amigos Historic District*

D1. Historic Name: *Los Angeles County Poor Farm* **D2. Common Name:** *Rancho Los Amigos National Rehabilitation Center*

This district evaluation is an update to two previous surveys: *1) McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995. 2) Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.*

***D3. Detailed Description** (Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district.): *The Rancho Los Amigos Historic District (District) consists of buildings, structures, and features occupying 52 acres located in the western portion of the City of Downey, County of Los Angeles, California. Constructed as the Los Angeles County Poor Farm, the District represents the evolution of the property from an institution originally intended to serve Los Angeles County's indigent into a medical hospital specializing in the rehabilitative care of persons with physical disabilities. Contributing resources to the District include hospital wards, infirmaries, residential units, an administration building, a power plant, and support buildings, including mechanical shops, kitchen and dining quarters, storage structures, laundry and toilet buildings, and a bathhouse.*

(See Continuation Sheet 2 of 6.)

***D4. Boundary Description** (Describe limits of district and attach map showing boundary and district elements.): *The District boundaries represent a subset of the historic boundaries of the Los Angeles County Poor Farm / Rancho Los Amigos during its period of significance and enclose the group of contributing features on the South Campus of Rancho Los Amigos dating from the period of significance that are extant. The period of significance begins with the establishment of the Los Angeles County Poor Farm in 1888 and ends with the 1952 retirement of the institution's most influential superintendent, William R. Harriman, who guided the transition from poor farm into medical hospital during the first half of the twentieth century.*

(See Continuation Sheet 4 of 6.)

***D5. Boundary Justification:** *The District boundaries contain a significant concentration of buildings, structures, and features that are united historically by plan and physical development. All the buildings, structures, and features constructed within the period of significance, 1888–1952, on the South Campus of Rancho Los Amigos lie within the boundaries. As defined, the District conveys a distinct sense of time and place associated with the evolution of the Los Angeles County Poor Farm into Rancho Los Amigos National Rehabilitation Center.*

***D6. Significance: Theme:** *Public Poor Farm, Public Hospital* **Area:** *Los Angeles County*
Period of Significance: *1888 - 1952* **Applicable Criteria:** *A* (Discuss district's importance in terms of its historical context as defined by theme, period of significance, and geographic scope. Also address the integrity of the district as a whole.)

The District was determined eligible for listing in the National Register of Historic Places (NRHP) under Criterion A on September 30, 1996. It is therefore also listed in the California Register of Historical Resources (CRHR) under Criterion 1. The current study upheld the significance of the District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The intensive-level survey update confirmed that the majority of the District contributors are extant and retain sufficient integrity to continue to contribute to the significance of the District and that the District exhibits sufficient integrity to maintain its significance under Criterion A/1 for its important role in the public welfare and health care history of the County of Los Angeles.

(See Continuation Sheet 4 of 6.)

***D7. References** (Give full citations including the names and addresses of any informants, where possible.):
(See Continuation Sheet 6 of 6.)

***D8. Evaluator:** *Leslie J. Heumann and Rebecca L. Silva* **Date:** *June 2, 2008*

Affiliation and Address: *Sapphos Environmental, Inc., 430 North Halstead Street, Pasadena, CA 91107*

***D3. Detailed Description (continued from page 1):**

The District also contains site plan and landscaping elements that contribute to the property's park-like historic character, including the distinctive street pattern anchored by the east-west running Consuelo Street and north-south Erickson Avenue; mature trees (Moreton Bay Fig, Bottle, Bunya bunya, Camphor, Coast Live Oak, Laurel Fig, Primrose, Queensland Pittosporum, Redwood, and southern Magnolia[1]); and vestiges of ornamental landscaping, such as lawns, shrubs, and fruit trees. The contributing buildings of the District represent five general architectural styles or types: Craftsman and wood vernacular, Classical influence, Spanish Colonial Revival, brick vernacular, and utilitarian. Craftsman and wood vernacular styling was favored for residential buildings, most notably the Harriman House (LACO No. 1101), but also for staff cottages (LACO Nos. 1121 and 1123) and the 1920s Infirmary Wards (LACO Nos. 1189–1199). The Classical Revival and Spanish Colonial Revival styles were selected for some of the most visibly prominent buildings of the District, the 1925 Power Plant (LACO No. 1300), the Administration Building (LACO No. 1100), and Casa Consuelo (LACO No. 1238). Classical Revival influence is also apparent in several of the buildings erected in the second and third decades of the 20th century, including the General Wards (LACO Nos. 1184–1188), Bathhouse and Ward (LACO No. 1260), and Kitchen and Dining Building (LACO No. 1295). Brick vernacular design characterized many buildings from the first quarter of the 20th century, including the original Power Plant (LACO No. 1302), the Psychiatric Wards (LACO Nos. 1202–1205), Kitchen, Dining, and Staff Room (LACO No. 1262), and Commissary and Receiving building (LACO No. 1263). Utilitarian buildings reflected their particular purpose, be they related to agricultural functions (Brooder House / Vivarium Annex, LACO No. 1335; the former horse barn, LACO No. 1283; or former hay barn, LACO No. 1207) or other operations and maintenance (Garage, LACO No. 1277). All five architectural genres were typical of the first half of the 20th century in Southern California. The oldest extant building in the District is the 1888 Aviary (LACO. No. 1312), which was moved circa 1930 from its location in the original central courtyard (now the open space east of the Auditorium, LACO No. 1261) to its current location in the interior courtyard of the Men's Psychiatric Ward (LACO No. 1205). The most recent building constructed in the District is the 1942 Lumber Shed (LACO No. 954).

The historic resources survey conducted in 1995 that resulted in the 1996 determination of eligibility documented a total of 103 buildings, structures, and features on the South Campus of Rancho Los Amigos, 78 of which were determined to be contributing elements to the District.[2] The current investigation of 129 buildings, structures, and features determined that there are 68 extant contributors to the District. Results of this intensive-level survey update indicate that, of the 78 original contributing resources identified in the 1995 survey,

- 6 buildings, structures, and features are no longer extant.[3] These include Patient Wards 212 and 214 (LACO Nos. 1200 and 1201), which were removed circa 2001; the 1930 shed and 1931 shed (LACO Nos. 1272 and 1333); the Vivarium (LACO No. 1334); and the Train Station (LACO No. 1352).

- 4 no longer contribute to the significance of the District: 3 because of loss of integrity (LACO Nos. 1243, 1251, and 1279) and 1 because of a date of construction that postdates the period of significance (LACO No. 4118).

- 1 additional building (LACO No. 1242) has been identified as a potential contributor to the District.

-1 structure (the Smoke Stack) was addressed as a separate resource in 1995, when it should have been included as part of the Power Plant (LACO No. 1300).

The remaining extant 45 buildings, structures, and features on the South Campus were identified as noncontributors to the District, either because they were previously determined to be noncontributors or because they lack sufficient age, historic association, and/or architectural character to be a part of the District.

All buildings and structures are listed in chronological order by construction date and are accompanied by their assigned Los Angeles County Number. Updated descriptions are provided in the attached DPR 523A Primary Records. The corresponding map illustrates the locations of the contributors, noncontributors, and demolished features within the District boundaries.
(See Continuation Sheet 3 of 6.)

[1] *Sapphos Environmental, Inc. "Historic and Landmark Tree Assessment." 2007. On file at Sapphos Environmental, Inc., 430 North Halstead Street, Pasadena, CA. 91107*

[2] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

[3] It is unknown exactly why the buildings were demolished, as none of the documentation collected in support of the 2007–2010 Historic District analysis indicated why or when the buildings were removed from the property.

***D3. Detailed Description (continued from page 2):**

Contributors	***LACO No.***	***Date Constructed***
Aviary	1312	1888
Moreton Bay Fig Tree	N/A	c. 1900 (planted)
Men's Psychiatric Ward	1205	1907
Dairyman's House	1137	1907
Chapel/Computer Center	1254	1908
Oil & Storage	1287	1909
Shop, Laundry, Ice Plant	1302	1909–1911
Commissary & Receiving Room	1263	1912
Dining Room, Kitchen, Staff Room	1262	1913–1926
Water Tower	1301	1913
General Ward 30	1184	1913
General Ward 40	1185	1913
Lock Shop	1276	1913
Superintendent's House	1101	1915
General Ward 50	1186	1916
Toilet Room	1244	1916
Superintendent's Garage	1177	1917
Workshop	1275	1917
Women's Psychiatric Ward	1203	1919
Toilet Building	1242	1920
Garage/Storage	1286	1920
Staff Cottage	1121	1921
Bathhouse and Ward	1260	1922
Patient Ward 201	1189	1923
Patient Ward 202	1190	1923
Patient Ward 203	1191	1923
Patient Ward 204	1192	1923
Trunk Storage	1283	1923
Men's Psychiatric Ward	1204	1924
Women's Psychiatric Ward	1202	1924
Staff Cottage	1123	1924
Garage and Storage	1278	1924
Power Plant	1300	1925
Work Preparation Center No. 2	1207	1925
Toilet Building	1256	1925
Garage	1277	1925
Toilet Building	1247	1925
Administration Building	1100	1926
Patient Ward 205	1193	1926
Patient Ward 206	1194	1926
Patient Ward 207	1195	1926
General Ward 60	1187	1926
Dairyman's Garage	1179	1926
Tool House	1356	1926
Garage	4121	1926
Kitchen and Dining Building	1295	1927
Auditorium	1261	1928
Patient Ward 208	1196	1928
Patient Ward 209	1197	1928
Patient Ward 210	1198	1928
Patient Ward 211	1199	1928
General Ward 70	1188	1928
Garage Storage	1280	1928
Brooder House/Vivarium Annex	1335	1929
Garage	1379	1929

(See Continuation Sheet 4 of 6.

***D3. Detailed Description (continued from page 3):**

Contributors	***LACO No.***	***Date Constructed***
Casa Consuelo	1238	1930
Toilet Building	1239	1930
Shelter	1240	1930
Canopy	1246	1930
Linen Room	1241	1932
Linen Room/Snack Bar No. 3	1245	1932
Wheelchair Repair	1259	1932
Bonita Hall	1264	1932
Storage	1268	1932
Garage	1270	1932
Shelter	1265	c. 1933
Landscape Office	1357	1938
Lumber Shed	954	1942

Noncontributors (since 1995 survey)	***LACO No.***	***Date Constructed***
Open Shelter	1243	1916
Open Shelter	1251	1916
Garage	1279	1925
Garage	4118	Post-1965

Demolished (since 1995 survey)	***LACO No.***	***Date Constructed***
Train Station, Warehouse	1352	1907
Vivarium	1334	1926
Patient Ward 212	1200	1928
Patient Ward 214	1201	1928
Shed	1272	1930
Shed	1333	1931

***D4. Boundary Description (continued)**

The boundary has been slightly adjusted on the northwest from that described in the previous (1995) District Record, to eliminate two buildings (LACO Nos. 1200 and 1201, both Patient / Infirmary Wards) that were demolished after the 1996 determination of NRHP eligibility and subsequent CRHR listing.

On the north, the boundaries roughly follow Flores Street and Golondrinas Street and deviate from the historical north boundaries because of the intervening construction of a business park south of East Imperial Highway. The boundary on the east generally follows Dahlia Street and the historic eastern limits of the County Poor Farm; the boundary excludes the curve of Consuelo Street and the 1955 new Chapel, constructed on the east side of Dahlia Street. The southern boundary runs along Aliso Street, the historic edge of the facility, but curve northwards to exclude four noncontributing buildings. The west boundary follows the railroad tracks, then generally tracks Laurel Street, with a bump out to accommodate the two westernmost, extant Patient / Infirmary Wards; this line also acknowledges newer construction within the western section of the former County Poor Farm boundaries.

***D6. Significance (continued from page 1):**

The 1995 survey that resulted in the determination of eligibility of the District stated that the District is significant under NRHP Criterion A "for its association with the turn-of-the-century health care of Los Angeles County's indigent population and for its later treatment of those in Los Angeles County with chronic illnesses, both mental and physical."[4]

(See Continuation Sheet 5 of 6.)

[4] Historic Resources Group. 26 July 1995. *1994 Northridge Earthquake Project Review: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review*. Rancho Los Amigos Medical Center District Record. Rancho Los Amigos Medical Center, Downey, CA.

***D6. Significance (continued from page 4):**

The 2007–2010 survey update confirmed the importance of the role of Rancho Los Amigos in evolution of the County welfare and health care systems. In its early years, Rancho Los Amigos, as the Poor Farm, was a response to the homeless problem of the period, housing the poverty stricken in the most cost-effective manner by making the institution self-sufficient. The Poor Farm was established during a period in American history when the public was increasingly aware of its responsibility toward those less fortunate and as the Progressive Movement gained support; it is no coincidence that Jane Addams Hull House in Chicago was established around the same time, in 1889. With one of its original goals of relieving the existing County hospital of the burden of caring for the indigent, the Poor Farm operated in tandem with the developing County health care system, which had opened its first hospital in 1878. Increasingly, as patients with long-term illnesses were directed to the Poor Farm, the institution became an integral part of that system. The niche that Rancho Los Amigos filled was that of long-term care and rehabilitation, particularly for those afflicted with mental illness, and later the victims of the mid-20th-century outbreaks of polio. As one of the historic cornerstones of the County of Los Angeles health care system, Rancho Los Amigos has been critical to the development of what is now the second largest health care system in the nation.

Concurrent with the evolving mission of the institution, its physical plant also grew and changed. The District today retains aspects of each period of Rancho Los Amigo's history. From its founding in the late 19th century, the District incorporates the distinctive curvilinear street plan still evident in the central east part of the campus and the Aviary (LACO No. 1312). A handful of buildings remain that reference the institution's agricultural and livestock operations, including a former stable and hay barn (LACO No. 1283), the farmhouse-like Oil and Storage Building (LACO No. 1287), the Dairyman's House (LACO No. 1137), and the Brooder House / Vivarium Annex (LACO No. 1335). Several buildings from the World War I and earlier era are reminders of the self-contained, residential nature of the facility and its growing focus on the treatment of long-term illness, including the Superintendent's House (LACO No. 1101); the older wings of the Dining Room, Kitchen, and Staff Room (LACO No. 1262); Commissary (LACO No. 1263); Workshop (LACO No. 1275); the first wing of the Men's Psychiatric Wards (LACO No. 1205); the first Power Plant (LACO No. 1302); the first Chapel (LACO No. 1254); and the first General Wards (LACO Nos. 1184, 1185, and 1186). The growth of the medical campus and its appurtenant support facilities is extensively represented, most prominently by the later General Wards and the Patient Wards (LACO Nos. 1187–1199), Men's and Women's Psychiatric Ward complexes (LACO Nos. 1202–1205 and 1239–1247), Power Plant (LACO No. 1300), Kitchen and Dining Building (LACO No. 1295), Bathhouse and Ward building (LACO No. 1260), Auditorium (LACO No. 1261), Administration Building (LACO 1100), and Casa Consuelo (LACO No. 1238). Although no agricultural fields are still extant, the nearby train tracks are a reminder of the essential proximity of transportation. The importance of landscape design to the concept of the County Farm can still be discerned from the remaining ornamental trees, most prominently a Moreton Bay fig tree, and the ample green space that flanks buildings in the central campus.

Although it is certainly true that numerous buildings have been demolished over the course of the history of Rancho Los Amigos and that a few incompatible buildings have been constructed within the District boundaries (e.g., the Butler Building, LACO No. 7000), the District still possesses the physical features necessary to convey its historical importance under Criterion A/1. Containing a range of property types linked by historical and physical development, the District retains sufficient integrity to provide a sense of historic and architectural cohesiveness, particularly with respect to its setting, design, materials, association, and feeling. The 1995 document characterized the District as an intact collection of structures used for health care and social services from 1888–1950 but defined the period of significance as 1888–1945, perhaps in deference to the 50-year requirement of the NRHP. Based on the history of Rancho Los Amigos, and the pivotal role of Superintendent William R. Harriman for most of the first half of the 20th century, extension of the period of significance to 1952, when Harriman stepped down, is suggested.

The 2007–2010 survey also resulted in the conclusion that a small number of buildings at Rancho Los Amigos also appear to be individually eligible for listing in the NRHP/CRHR under Criterion C/3 for architectural merit (LACO Nos. 1100, 1101/1177, 1238, 1262/1263, and 1300–1302).

Additional information regarding the history of the Los Angeles County Poor Farm can be found in the attached Building, Structure, and Object Records and in the report, Rancho Los Amigos Historic District Update Report (Sapphos Environmental, Inc., June 2011).

***D7. References (continued from page 4):**

McAvoy, Christy J. 26 July 1995. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group.

Post/Hazeltine Associates. 19 March 2004. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California.

Sapphos Environmental, Inc. June 2010. Rancho Los Amigos Historic District Update Report, Prepared for: County of Los Angeles.

State of California The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

Page of

*Resource Name or #:

*Map Name:

*Scale: *Date of Map:



DPR 523J (1/95)

*Required information

***Resource Name or #** (Assigned by recorder) *Moreton Bay Fig Tree*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *(Not addressed)* **NR Status Code:** *(Not addressed)*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Moreton Bay Fig Tree was planted at the Los Angeles County Poor Farm (in circa 1900). It is located in the ornamental courtyard area in the center of the area now known as South Campus east of the Dining Room/Staff Rooms/Kitchen/Commissary Complex (LACO Nos. 1262 & 1263) and Auditorium (LACO No. 1261). The tree sits directly west of Erickson Avenue. Of impressive size, the tree was measured in 2007 at 10.2 meters in height, with a diameter at breast height of 3.25 meters and a canopy of 36.6 meters. The tree appears to be healthy. Notable both for its size and its above-ground root system, the tree serves as a marker for the center of the South Campus area.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview facing southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *circa 1900 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B10. Updated Significance:**

This resource was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Moreton Bay Fig Tree as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The tree was planted in circa 1900 as a central landscaping feature for the County Poor Farm. A significant component of the Poor Farm from the beginning, landscaping created a scenic, lush, and inviting environment for the patients, staff, and visitors.

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

An Australian import, Moreton Bay fig trees were popular as ornamental trees in Southern California from the last quarter of the 19th century through the first quarter of the 20th century. Individual Moreton Bay fig trees have been designated as landmarks in several Southern California communities, including Los Angeles, Santa Monica, Santa Barbara, and San Diego. The City of Downey has recognized this Moreton Bay Fig Tree in the significant tree list incorporated into its General Plan, Downey Vision 2025.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #954* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Lumber Shed (LACO No. 954) is located northeast of the intersection of Laurel and Bonita Streets. The Lumber Shed is one-story, asymmetrical in appearance and rectangular in plan. The wood-framed vernacular building is capped by a medium-pitched, front-gabled roof with slightly overhanging eaves and exposed rafters, and is covered by composition shingles. The building is clad in a combination of vertical and horizontal wood siding, possibly indicating use of salvaged materials. A series of original wood sliding doors are located on the east and west elevations and provide access to individual storage areas. Original extant wood-framed, one-over-one, double-hung sash windows are located on the north elevation of the building. An attached, front-gabled screen porch is located on the south façade. The building is sited directly on concrete pavement which surrounds the building. Character-defining features include: horizontal massing and rectangular plan, medium-pitched front gabled roof, original wood-framed windows (where extant), original wood sliding doors (where extant), and screened porch. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade, Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1942 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include the replacement of original roofing material, and the removal of original windows and doors.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Lumber Shed (LACO No. 954) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1942 to serve as a support building for the general construction operations of the institution. It stored lumber needed for the upkeep of existing buildings on the South Campus, as well as providing building materials for the new construction taking place on the North Campus. The building continued to be used for lumber storage for many years until it was abandoned in the late twentieth-century.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. An example wood-framed utilitarian construction, the building retains integrity of location, feeling, association, design, materials, and workmanship. It has retained most of its character-defining features: simplicity of design and lack of ornamentation; horizontal massing and rectangular plan; wood framing and exterior building materials; original windows and doors (where extant); and attached front-gabled porch. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1. **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1100* **NR Status Code:** *3[S]*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Administration/Safety Police Building (LACO No. 1100) is located in the southeast section of the Rancho Los Amigos Historic District, facing the original Consuelo Street entrance to the campus. The two-story building is rectangular in plan and features horizontal massing beneath a complex gabled roof. Designed in the Spanish Colonial Revival style, the building is constructed of reinforced concrete, with smooth stucco exterior walls and a red-clay tile roof. It sits on a concrete foundation. At the south end of the east-facing façade, an eight-sided tower capped by a domed cupola marks the raised entry bay. A front-gabled bay at the north end of the façade echoes the projection. In between the end bays, three interior bays are defined by tall, round-arched, multi-pane windows on the lower story and tripartite casement windows on the second story. Elevated seven steps above ground level, the Baroque style cast stone portal consists of a double, glazed door, flanked by sidelights and topped by transoms, recessed into a rusticated surround accented by engaged, fluted columns. The columns support a balconet with a wrought iron railing, behind which a tripartite window is set into a cast stone surround topped by a three-lobed arch pediment. Finials adorn the pediment and the wall surface above the columns. A curved parapet repeats the shape of the pediment immediately below it. On the tympanum, the year of construction, "1926," has been incised.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (**Photo required for buildings, structures, and objects.**)



P5b. Description of Photo: (View, date, accession #) *East elevation, facing southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources**: *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***P3a. Updated Description (continued from page 1):**

The north and south elevations are also asymmetrically organized, with front gabled wings on the east ends and side-gabled wings extending to the west. Both elevations are fenestrated predominantly with double casement windows. On the north, a four-bay arcade projects from the lower story. On the south, a small balcony is defined by a two-bay arcade. The central portion of the rear elevation contains a second story terrace with a slightly crenellated railing.

Park-like lawns punctuated by mature trees, shrubs and grass provide the setting for the Administration Building, which is encircled by driveways. Character-defining features include: horizontal-massing and U-shaped plan; projecting and receding wall planes on the façade; smooth stucco walls; cross-gabled roof with tower and domed cupola and red-clay tile covering; decorative façade entrance bay consisting of Baroque style cast stone portal and recessed entry; use of arched openings, including windows and arcade; and incorporation of patio spaces. The property is in excellent condition, but has been altered by the removal of an arcaded extension of the north elevation to the west, replacement of many of the original windows and doors (within the original openings and recreating the original division of window lights), and repair and replacement of the original stucco. Despite these changes, the building retains sufficient integrity to convey its period of significance.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations and alteration dates as they appear from original architectural drawings and historic photographs include: replacement stucco; replacement windows; the replacement of all wood doors (except for the main entrance door) with metal doors; and the removal of an original arcade extension on the north elevation after the 1933 Long Beach earthquake.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Administration /Safety Police Building (LACO No. 1100) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. Erected in 1926, it was the second Administration Building at Rancho Los Amigos, and housed the administrative offices, the superintendent's office, and the post office as well as additional patient ward space. It was prominently sited at the main entrance to South Campus on Dahlia Street facing east towards the east-west axis of Consuelo Street. It was intended by this location and placement to be the first building seen by visitors to the campus, and thereby became not only the most accessible building but also symbolic of the facility. The open park-like setting surrounding the building created a separation between the building and the private hospital buildings located further west on Consuelo Street toward the center of South Campus. Today, the building is still sited within this open space, and it retains the same spatial relationships to the hospital buildings on the south campus. It still functions as an office building, and presently houses the Los Angeles County Office of Public Safety.

Although the building has been somewhat altered by its 1980 rehabilitation, its exterior appearance still reflects its period of construction. An example of the Spanish Colonial Revival style, the building retains integrity of location, feeling, association, design, and to some degree, materials and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; asymmetrical projecting and receding wall planes on the façade; smooth stucco walls; cross-gabled roof with tower and domed cupola and red-clay tile covering; and decorative façade entrance bay consisting of a Baroque style cast stone portal and recessed entry. The building's position as the focal point of the primary entrance to the County Farm was altered when the main entrance was relocated to the north-south axis of Erickson Avenue and the functions of South Campus were closed or relocated to the North Campus.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

In 1923, Superintendent William R. Harriman commissioned the design a new building to house the administrative offices of the growing campus. He felt the original 1889 administrative offices, a three-story building once located directly west of Erickson Avenue and directly in front of the original Rectory Building (now the Auditorium), had become inadequate for the growing needs of himself, the patients, and his staff. A new Spanish Colonial Revival style building was under construction by July of 1926, sited in an area he considered a "more convenient location close to the main entrance of the Farm," off of Consuelo Street.[1] The new building was in use by 1927, and Harriman hired additional secretaries, bookkeepers, typists, and clerks. In 1933, the rear portion of the north elevation arcade projection was removed due to structural damage caused by the 1933 Long Beach earthquake. The building was rehabilitated in the 1980s.

[1] Fliedner, Colleen Adair. 1990. "Centennial, Rancho Los Amigos Medical Center, 1888–1988." Rancho Los Amigos Medical Center. Downey, California: p. 143.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1101* **NR Status Code:** *3[S]*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Superintendent's House (LACO No. 1101) is located in the central grassy area of the Rancho Los Amigos Historic District, bounded by Consuelo Street and Erickson Avenue, slightly southeast of the Erickson Avenue traffic circle. The two-story building is rectangular in plan with horizontal massing and an asymmetrical appearance beneath a complex cross-gabled roof. Designed in the Craftsman style, the building is constructed of simple (or drop) wood siding laid in alternating tall and short bands and a low-pitched, wood-shingle roof with wide over-hanging eaves and rafter tails. The building sits on a brick foundation. The first floor of the façade has a wrapping front porch constructed of red brick that is topped by a pent hipped roof. The primary entrance is located in the east bay of the porch and consists of a broadly proportioned doorway with a door and frame of unpainted wood. A large, rectangular window occupies the upper half of the door, set off by a ledge and a band of corbels beneath its lower edge, and two large vertical panels on its lower half. Extending west from the house, a red brick porte cochère topped by a sleeping porch is covered by a side gable at a slightly lower height than that of the main roof. A façade front gable surmounts a slightly projecting bay and is trimmed by a plain barge board and supported by triangular, solid braces.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1915 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

Multiple gables face the east, west, and south elevations, all of which have gable ends with latticework attic vents, supported by triangular braces and rafters in the eaves. A capped interior chimney is located south of the ridgeline of the main side gable. Notched beams project between the first and second-story of the building. The windows are arranged asymmetrically on each elevation primarily in bands or pairs, and include one-over-one-light double-hung sash, casements, and fixed pane, all of which are wood framed and flat-headed. Window trim consists of flat wood boards with slightly projecting sills.

Mature trees, shrubs, grass and vestiges of the original landscaping, including orange trees, provide the setting for the Superintendent's House. Concrete sidewalks surround the house on all elevations, and a concrete driveway is located on the building's west elevation and runs under the porte cochère. The property is in good condition, but has been altered by the removal of a Craftsman style wood-framed screen door that was originally mounted in front of the door and is currently stored within the house. Non-original metal doors are also present on the building. Despite these changes, the building retains sufficient integrity to convey its period of significance. Character-defining features include: horizontal massing articulated by low-pitched roof; horizontal siding; bands of windows; exposed structural features such as rafters, beams, braces, and piers; use of wood and brick; integration of interior and exterior through incorporation of porches and provision of multiple windows.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Alterations as they appear from historic photographs include the replacement of original wood doors with metal doors; enclosure of the second-story south elevation (rear) sleeping porches with bands of louvered windows; and the enclosure of the first-story south elevation (rear) west projecting brick porch with plywood.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Harriman / Superintendent's House (LACO No. 1101) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. In addition, the house illustrates several of the distinctive characteristics of the Craftsman style, including horizontal massing, gabled roof configuration, exposed structural elements, incorporation of several capacious porches, and fenestration with generous bands of windows. Given its setting within the County Farm and the City of Downey, the property also appears to be eligible to the National Register of Historic Places and California Register of Historical Resources under Criterion C/3. The building was erected in 1915 as the residence for the superintendent of the County Poor Farm. Although it was commissioned by Superintendent Charles C. Manning, who oversaw the operations at the County Farm from 1911 to 1915, Superintendent William R. Harriman and his family became the building's first residents. After Harriman's resignation in 1952, the house was converted into an assisted living facility and offices. It currently is used for storage by the Los Angeles County Office of Public Safety.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction, retaining integrity of location, feeling, association, design, materials, and workmanship. Most of its character-defining features are intact: horizontal massing articulated by low-pitched roof; horizontal siding; and bands of windows; exposed structural features such as rafters, beams, braces, and piers; use of wood and brick; integration of interior and exterior through incorporation of porches and provision of multiple windows. Its setting has been somewhat degraded through the deterioration of the surrounding landscape.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

The construction of the Superintendent's House was planned by Superintendent Charles C. Manning in 1911 after moving his wife and four children into the cramped second-story quarters of the original Administration Building. He saw the need for a grand residence to be constructed at the County Farm that would reflect the leadership role of the Superintendent. The 5,000-square-foot, four-bedroom building was designed in the Craftsman style, which was a popular style for residences during the period of 1905 until the early 1920s. The Craftsman style had been influenced by the aesthetics of the mid-19th-century Arts and Crafts Movement but essentially originated in Southern California and quickly spread through the country by pattern books and popular magazines. Craftsman style homes were known for open plans, horizontal massing, unadorned wood surfaces, and integration with the surrounding landscape.

The Superintendent's House was not completed until 1915, after Manning had resigned and his position filled by William Ruddy Harriman. The construction had been delayed somewhat after the flood of 1914, when lumber being stored for the house was damaged. Superintendent Harriman and his family became the new building's first residents, and the house became known as the Harriman House. Two years later, Harriman had a two-car garage (LACO No. 1177) constructed at the rear of the house in a matching Craftsman style. Also during this period or a few years later, a gardener's shed (LACO No. 1178) was constructed at the rear of the house close to the garage.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1121* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of two nearly identical buildings, the Staff Cottage (LACO No. 1121) is located on the northeast corner of Hawthorn and Flores Streets and positioned directly east of the second cottage. The Staff Cottage is a one-story building, asymmetrical in appearance, and rectangular in plan. Although displaying some influence of the Craftsman bungalow style, the building is vernacular in design. The wood-framed building is capped by a low-pitched, cross-gabled roof with rafters and knee braces exposed in the overhanging eaves. Rolled asphalt and composition shingles cover the roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. The building sits on a concrete slab foundation and is clad in horizontal lapped wood siding. Fenestration on all elevations consists primarily of a linear arrangement of variously sized wood-framed, one-over-one, double-hung sash windows, whose plain wood casings are characterized by slightly extended lintels. The primary entrance (east façade) is offset slightly to the north in the slightly raised center bay and is sheltered by a shed roof that projects from the front gable end. False beams support the shed roof. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade and North Elevation, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources**: *1921 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***P3a. Updated Description (continued from page 1):**

Three additional entries on the east façade, two to the south of the gabled projection and one to the north, are similarly framed and have been enclosed with plywood. A non-original, sloped concrete ramp with iron pipe railings provides access to the main entrance. Each of the four entries is flanked to each side by single windows. A secondary entrance, accessed by four steps, is located on the rear elevation; the rear door is also a metal replacement. A non-original small shed has been attached the north elevation. Existing landscaping surrounding the Staff Cottage consists of mature trees, shrubs, grass and vestiges of original flower beds defined by timbers. Original concrete pathways to building, shown on historic aerial photographs, have been covered or removed. Character-defining features include: cross-gabled roof, exposed braces and overhanging eaves, double-hung sash windows, and original wood clapboard siding. The property is in deteriorated condition and its windows have been boarded over.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Alterations as they appear from historic photographs include: the removal of four sets of stairs leading to the east entries, boarding over three entrances on the east façade, and the addition of a concrete ramp to the east façade between circa 1960 and 1990; replacement metal doors circa 1990; and a one-story shed addition to the north elevation circa 1960.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Staff Cottage (LACO No. 1121) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1921 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Containing four residential units, the staff cottages housed the additional staff hired to work in the patient ward buildings, which were built nearby during the same time period. This cottage is one of two extant examples of this property type in the Historic District. Historic photographs indicate that several rows of similar cottages and dormitories had been built immediately to the north by 1930.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular interpretation of the Craftsman bungalow style, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features, which reflect the influence of the Craftsman style: horizontal massing and rectangular plan; low-pitched cross-gabled roof; horizontal wood siding; wide window and door casings; and exposed structural features such as rafters, braces, and false beams. Its setting has been altered through the loss of the other staff housing to the north and east (circa 1990) and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In the 1920s, Superintendent William R. Harriman began expanding the County Farm. Much of the new construction resulted from the demand for additional services occasioned by the opening of the first four Infirmary Wards (LACO Nos. 1189–1192) in 1923 and the plan to construct nine additional ward buildings (LACO Nos. 1192–1199). The construction of these buildings affected every department of South Campus. A new power plant was planned to generate more heat and power (LACO No. 1300); there was a great need for additional kitchen and dining facilities (LACO No. 1295); and the laundry facilities had to expand to accommodate the sizable linen needs. Also, dozens of new employees had to be hired to staff the new ward buildings, creating a need for additional staff housing. A two-story dormitory was constructed (no longer extant), as well as additional married staff cottages. By 1926, four married staff cottages had been built in an open grassy area at the northwest intersection of Esperanza and Hawthorn Streets. Although there were various types of staff cottages constructed throughout the years in South Campus, it appears from historic aerials that there were only four of this type of cottage constructed. The cottages shared the same Craftsman style and basic appearance featured on other staff cottages of the South Campus; however, they varied somewhat in their floor plans. Over the years, the staff cottages were used for multiple purposes such as office and storage. Today, only the southernmost two of the four cottages are still extant.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1123* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of two nearly identical buildings, the Staff Cottage (LACO No. 1123) is located on the northeast corner of Hawthorn and Flores Streets and positioned directly west of the second cottage. The Staff Cottage is a one-story building, asymmetrical in appearance, and rectangular in plan. Although displaying some influence of the Craftsman bungalow style, the building is vernacular in design. The wood-framed building is capped by a low-pitched, cross-gabled roof with rafters and knee braces exposed in the overhanging eaves. Rolled asphalt and composition shingles cover the roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. The building sits on a concrete slab foundation, and is clad in horizontal lapped wood siding. Fenestration on all elevations consists primarily of a linear arrangement of variously sized wood-framed, one-over-one, double-hung sash windows, whose plain wood casings are characterized by slightly extended lintels. The primary entrance (east façade) is offset to the north in the slightly raised center bay and is sheltered by a shed roof that projects from the front gable end. False beams support the shed roof. Plain wood trim with extended lintels frames the entry, which consists of the original wood glazed and paneled door and screen door. Three additional entries on the east façade, two to the south of the gabled projection and one to the north, are similarly framed and have been enclosed with plywood. A non-original concrete stepped-stoop with iron pipe railings provides access to the main entrance. Each of the four entries is flanked to each side by single windows.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade and North Elevation, Facing Northwest, January 29, 2007.*

***P6. Date Constructed/Age and Sources:** *1924 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

Two secondary entrances, accessed by four steps, are located on the rear elevation; the rear doors are also the original wood paneled and glazed doors with wood paneled screen doors. Existing landscaping surrounding the Staff Cottage consists of mature trees, shrubs, grass and vestiges of original flower beds defined by timbers. Original concrete pathways to the building, shown on historic aerial photographs, have been covered or removed. Character-defining features include: cross-gabled roof, exposed braces and overhanging eaves, double-hung sash windows, and original wood clapboard siding. The property is in deteriorated condition and its windows have been boarded.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Alterations as they appear from historic photographs include the removal of three sets of stairs leading to the east entries and the boarding over of three entrances on the east façade.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Staff Cottage (LACO No. 1123) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1924 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Containing four residential units, the staff cottages housed the additional staff hired to work in the patient ward buildings, which were built nearby during the same time period. This cottage is one of two extant examples of this property type in the Historic District. Historic photographs indicate that several rows of similar cottages and dormitories had been built immediately to the north by 1930.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular interpretation of the Craftsman bungalow style, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features, which reflect the influence of the Craftsman style: horizontal massing and rectangular plan; low-pitched cross-gabled roof; horizontal wood siding; wide window and door casings; and exposed structural features such as rafters, braces, and false beams. Its setting has been altered through the loss of the other staff housing to the north and east (circa 1990) and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In the 1920s, Superintendent William R. Harriman began expanding the County Farm. Much of the new construction resulted from the demand for additional services occasioned by the opening of the first four Infirmary Wards (LACO Nos. 1189–1192) in 1923 and the plan to construct nine additional ward buildings (LACO Nos. 1192–1199). The construction of these buildings affected every department of South Campus. A new power plant was planned to generate more heat and power (LACO No. 1300); there was a great need for additional kitchen and dining facilities (LACO No. 1295); and the laundry facilities had to expand to accommodate the sizable linen needs. Also, dozens of new employees had to be hired to staff the new ward buildings, creating a need for additional staff housing. A two-story dormitory was constructed (no longer extant), as well as additional married staff cottages. By 1926, four married staff cottages had been built in an open grassy area at the northwest intersection of Esperanza and Hawthorn Streets. Although there were various types of staff cottages constructed throughout the years in South Campus, it appears from historic aerials that there were only four of this type of cottage constructed. The cottages shared the same Craftsman style and basic appearance featured on other staff cottages of the South Campus; however, they varied somewhat in their floor plans. Over the years, the staff cottages were used for multiple purposes such as office and storage. Today, only the southernmost two of the four cottages are still extant.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1137* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Dairyman's House (LACO No. 1137) is located in an open grassy area bounded by Consuelo Street to the north, Erickson Avenue to the west, Bonita Street to the south, and Dahlia Avenue to the east. The Dairyman's House is a one-story building, asymmetrical in appearance and rectangular in plan. The wood-framed Wood Vernacular style building is capped by a medium-pitched side-gabled roof, sheathed in split-wood shingles. Rectangular louvered vents are visible in the eaves on the north and south elevations. A brick chimney is attached to the south side of the east elevation and projects mid-way up the roof. The building sits on a concrete slab foundation and is clad in horizontal wood siding trimmed with end boards. Fenestration on all elevations consist primarily of wood-framed windows, including (where extant) two-over-two double-hung sash windows and single fixed windows. The primary entrance is located on the west façade and consists of a Craftsman style wood door. A secondary entrance is located on the east elevation attached kitchen. On the west façade, an attached, partial-width, front porch covered by a shed roof, supported by square posts and enclosed by a solid railing is accessed by a two-step concrete stoop. A partial-width attached kitchen wing projects from the north side of the east elevation. Existing landscaping surrounding the Dairyman's House consists of mature grass, trees and shrubs. A concrete walkway leads to the primary entrance of the building from Bonita Street. The wood vernacular style of the building is characterized by the horizontal massing and rectangular plan; (now partially enclosed) porch with squared wood posts; medium-pitched side-gabled roof; linear bands of windows; and screened porch. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing Southeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1907 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings could be found for this building. Alterations as they appear from historic photographs include: loss of original windows and doors, the addition of windows to enclose the front porch, and the attached east elevation kitchen wing.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Dairyman's House (LACO No. 1137) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1907 as a staff residence at the County Poor Farm. The building was originally occupied from 1907-1911 by Fred Wyman, a gardener. In 1911, L.R. Manning, head dairyman and brother of then Superintendent, Charles C. Manning, took occupancy of the building until 1915. From 1919-1945 Billy Payne, a nursing aide, lived in the house, and from 1949-1970 it was occupied by Azalea Barton, of whom little is known. In 1970, the building was given to the landscaping department for storage. The building is currently abandoned, and is one of three staff residences (not including the Harriman / Superintendent's House) still extant in the Historic District. It is also one of the oldest extant buildings at Rancho Los Amigos.
Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular, wood-framed cottage, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: simplicity of design and lack of ornamentation; wood construction; horizontal wood siding trimmed with end boards; attached, partial-width, front porch with shed roof supported by square posts and enclosed by solid railing; and original wood-framed windows. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

***Recorded by**: *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1177* **NR Status Code:** *3[S]*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Superintendent's Garage (LACO No. 1177), an outbuilding associated with the Superintendent's House (LACO No. 1101), is located slightly southwest of the house in a central open grassy area directly east of Erickson Avenue. The one-story building is square in plan and capped by a side-gabled roof. The building sits on a concrete foundation. Designed in the Craftsman style to match the Superintendent's House, the garage is constructed of simple (or drop) wood siding laid in alternating tall and short bands topped by a moderately low-pitched wood shingle roof with plain bargeboards, exposed rafters and shallow overhanging eaves. Attic vents in the gable ends are filled with wooden horizontal slats. A centered, front-gabled roof dormer accents the north facade. A pair of original garage doors placed side-by-side are located on the north façade. Each set of double doors has an "X-panel" in the lower half and a six-light window in the upper half (boarded over). A three-light hopper window is located in the central roof dormer. Wide window and door casings trim the openings.

(See Continuation Sheet 2 of 2.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *North Façade and West Elevation, Facing Southeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1917 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***P3a. Updated Description (continued):**

Mature trees, shrubs, grass, and vestiges of the original landscaping, including orange trees, provide the setting for the Superintendent's Garage. A concrete driveway is located at the building's north façade. The property is in deteriorated condition and has been altered by a non-original carport extension that has been attached to the west elevation. The building retains sufficient integrity to convey its period of significance.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Historic photographs make evident one alteration, an attached carport extension on the west elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 201 (LACO No. 1189) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1917, two years after the adjacent Superintendent's House, to house the Superintendent's automobile. Its appearance reflects the Craftsman style of the residence. The first user of the garage was the most well-known and influential superintendent in the history of the County Poor Farm, William R. Harriman. Superintendent Harriman used the building for its original purpose until the end his tenure in 1952. The building is now used as storage space.

The building has only minor alterations, and still reflects its period of construction. The building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features, which reflect the influence of the Craftsman style: horizontal-massing and rectangular plan; low-pitched gable roof; and horizontal wood siding. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *N/A (Not addressed)*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1178* **NR Status Code:** *3[S]*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004 .

***P3a. Updated Description:**

An outbuilding of the Harriman House, the Superintendent's Shed (LACO No. 1178) is located slightly southwest of the house in a central open grassy area directly off of Erickson Avenue. The Harriman Shed is a small, one-story, one-room building, symmetrical in appearance and square in plan. Its vernacular appearance is characterized by a steeply angled shed roof, exposed rafters, and board and batten walls. The entrance is located on the northwest façade and consists of a single door opening with plain wood trim. There are remnants of the original wood paneled door. Single wood-framed, one-over-one, double-hung sash windows are located centrally on both the southwest and northeast elevations. The windows are surrounded by a plain wood trim and have slightly projecting wood sills. Existing landscaping surrounding the Shed consists of a paved path mature trees, shrubs, and grass. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of Northwest Façade and Southwest Elevation, Facing Southeast, January 29, 2007*

***P6. Date** Constructed/Age and Sources: *c.1915-1922 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. According to historic photographs, there have been no alterations to the building.

***B10. Updated Significance:**

Although within the boundaries of the Rancho Los Amigos Historic District, which was determined eligible for listing in the National Register of Historic Places under Criterion A on September 30, 1996, the Superintendent's Shed does not contribute to the significance of the District. It was not determined eligible as a District contributor in 1996. The building was constructed circa 1917 to 1922, based on historic aerial photographs. No information regarding its function has been discovered to link it to the historic evolution and mission of the District, other than its date of construction (Criterion A/1. Similarly, no information suggesting an important association with Superintendent William R. Harriman other than the fact of its construction during his residency, has been found (Criterion B/2). It is a utilitarian building and does not possess any architectural merit (Criterion C/3). The recommended California Historical Resources Status Code is 6Z.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1179* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

An outbuilding of the Dairyman's House (LACO No. 1137)), the Dairyman's Garage (LACO No. 1179) is located in an open grassy area directly east of the house. The Dairyman's Garage is one-story with horizontal massing and a rectangular plan. The wood-framed vernacular building is capped by a moderately-pitched front-gabled roof with rafters exposed in the overhanging eaves. A combination of split-wood shingles and rolled composition roofing material covers the roof. The exterior walls are clad in board-and-batten siding. Original window openings are located on the north and west elevations. Offset to the east on the building's south façade, the vehicular entry consists of side-hinged board-and-batten double doors. The existing setting consists of a yard containing mature grass, shrubs, and trees. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade, Facing North, January 29, 2007.*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. The only alteration to the building is the addition of rolled composition roofing material.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Dairyman's Garage (LACO No. 1179) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926, several years after the Dairyman's House (LACO No. 1137, It was used for car and equipment storage for many years until the landscaping department began using the building for storage in 1970. The building is currently abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. It retains integrity of location, feeling, association, design, materials, and workmanship, as well as its limited character-defining features: simplicity of design and lack of ornamentation; wood framing; board-and-batten siding; and original doors. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

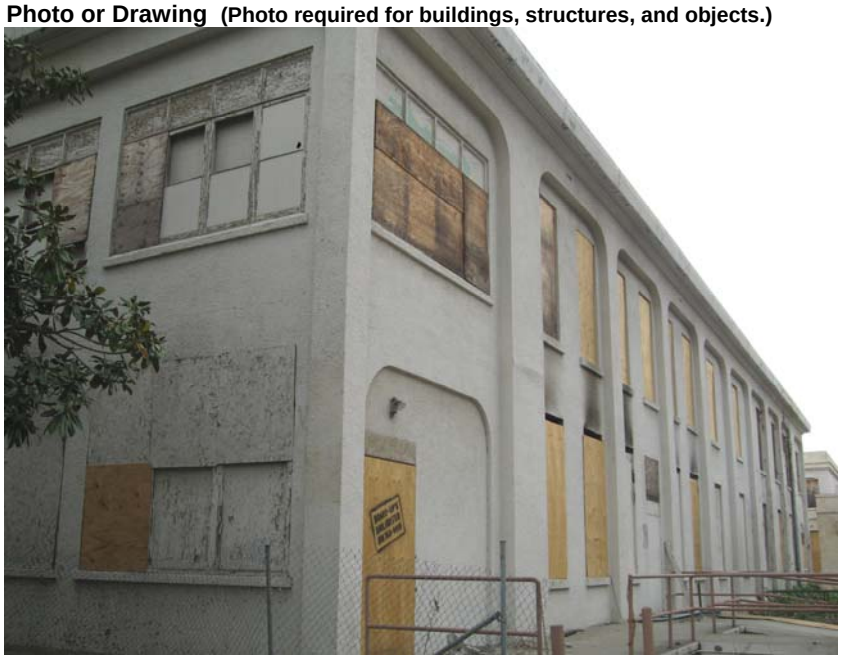
2. **Resource Identifier:** *LACO #1184* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of five nearly identical buildings, General Ward 30 (LACO No. 1184) is located on the west side of Erickson Avenue and is the northern anchor of a row of four General Ward buildings that are sited northwest of the intersection of Erickson Avenue and Bonita Street. One additional building is located south of Bonita Street. Reflecting a stripped Classical Revival design, General Ward 30 is two-stories in height with a rectangular plan and a symmetrical east-facing façade. The building sits on a concrete foundation and has reinforced concrete exterior walls covered in painted, textured stucco. The flat roof is surmounted by a flat, monitor roof projection wrapped in a continuous linear band of metal, louver vents. The western section of the roof exhibits fire damage. At the top of the wall plate, a crown molding is topped by a plain, projecting cornice. A continuous blind arcade divides the east (primary) and west (rear) elevations into two bays, each bay containing two groups of four windows on each level. The blind arcade defines ten bays on the north and south elevations. Fenestration on these elevations is mostly single windows, two per bay. Windows are primarily wood-framed, one-over-one, double-hung sash topped by hopper type transoms. At the west end of the building, a one-story bridge connects General Ward 30 to General Ward 40 (LACO No. 1185) to the south and to the Dining Room/Staff Rooms/Kitchen/Commissary Complex (LACO Nos. 1262 and 1263 to the west). Primary entrances are located at the east and west ends of the north and south elevations and are accessed by concrete ramps edged by pipe railings.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade and North Elevation, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1913 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***P3a. Updated Description (continued):**

Secondary entrances are located centrally on the north, south, and west elevations. Both original, single and double wood doors and metal replacement doors are present. Existing landscaping surrounding the building consists of a sparse amount of mature shrubs and grass. Concrete sidewalks surround the building. The property is in deteriorated condition and its doors and windows have been boarded over.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include the enclosing of original screened porch areas with wood-framed double-hung windows, the replacement of metal doors, and fire damage to the roof.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of General Ward 30 (LACO No. 1184) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1913 to house patients of the County Poor Farm and was converted into a medical and pharmacy building in the 1930s. It continued to function as a medical building and ward until it was converted into office and storage space in the late 20th century. The building is currently abandoned.

Although the building has been somewhat altered, it exterior appearance still reflects its period of construction. An example of stripped Classicism, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: the vertical division of the exterior walls into two-story segmentally arched bays by plain raised piers, and the horizontal division of the exterior into three parts by a simple cornice topped by a parapet and raised wall base. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

The General Ward Buildings were begun under Superintendent Charles C. Manning's direction in 1912 and completed under Superintendent William R. Harriman's in the late 1920s. In 1912, Manning requested the plans drawn for the first two General Ward Buildings, later called Buildings 30 and 40 (LACO Nos. 1184 and 1185), to be constructed along the west side of Erickson Avenue south of the original Administration Building (no longer extant). The buildings were to be connected on their west (or rear) elevations by a one-story hyphen addition that provided a covered walkway and handicapped access between the two buildings. It was necessary to demolish the original pump house building and water tower for the construction of Building 30; a recording device was installed under the building to continue to record the local water table for the water district.[1] *A new large steel water tower and tank were constructed to the rear of the original powerhouse (LACO No. 1302). Building 30 also housed the first receiving ward for the campus and became known as the Medical Offices and Pharmacy Building. Once the first two General Ward Buildings were completed in 1913, the old North Ward (no longer extant) reverted from a hospital ward back to its original use as a General Ward for male patients.*

By 1917, the patient population had reached a new high of over 600, prompting Harriman to construct Building 50, the third General Ward Building (LACO No. 1186), directly south of Building 40.[2] *To facilitate additional dining room space for the growing patient population created by these new ward buildings, as well as to provide additional employee housing, a dining room extension (south wing of LACO No. 1262) was constructed to the west (rear) of the General Ward Buildings and to the south of the Kitchen Wing circa 1920. A pedestrian bridge providing handicapped accessibility was constructed to connect the new Dining Room Wing to the rear of Buildings 30 and 40.*

A fourth General Ward Building, known as Building 60 (LACO No. 1187), was constructed in the mid-1920s directly south of Building 50. The fifth and final General Ward Building, known as Building 70 (LACO No. 1188), was constructed circa 1928 south of Building 60. Building 70 was slightly separated from the first four buildings by Bonita Street. The five General Ward Buildings were positioned in a linear row facing Erickson Avenue, and the first four were connected by bridges. In later years, the use of the buildings changed from hospital wards to storage and general office space. Currently, the buildings are vacant, and in circa 2006, Building 30 (LACO No. 1184) suffered extensive fire damage to its second floor.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 74.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 89.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

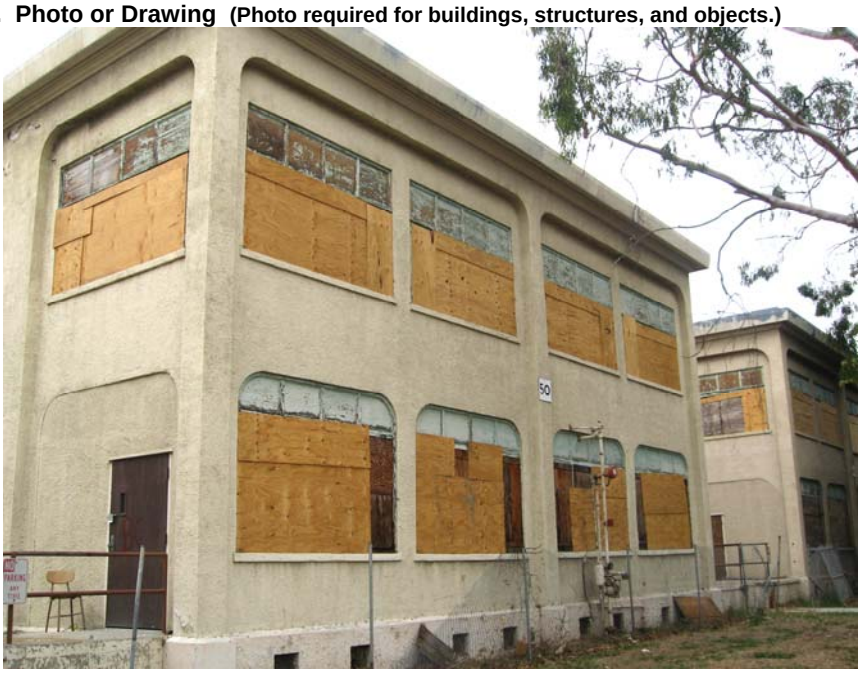
2. **Resource Identifier:** *LACO #1185* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of five nearly identical buildings, General Ward 40 (LACO No. 1185) is located on the west side of Erickson Avenue and is positioned centrally in a row of four General Ward Buildings that are sited northwest of the intersection of Erickson Avenue and Bonita Street. One additional building is located south of Bonita Street. Reflecting a stripped Classical Revival design, General Ward 40 is two-stories in height with a rectangular plan and a symmetrical east-facing façade. The building sits on a concrete foundation and has reinforced concrete exterior walls covered in painted, textured stucco. The flat roof is surmounted by a flat, monitor roof projection wrapped in a continuous linear band of metal, louver vents. At the top of the wall plate, a crown molding is topped by a plain, projecting cornice. A continuous blind arcade divides the east (primary) and west (rear) elevations into two bays, each bay containing two groups of four windows on each level. The blind arcade defines ten bays on the north and south elevations. Fenestration on these elevations is mostly single windows, two per bay. Windows are primarily wood-framed, one-over-one, double-hung sash topped by hopper type transoms. A bridge connects the west end of the building to General Ward 30 (LACO No. 1184) to the north, and a one-story hypen connects to General Ward 50 (LACO No.1186) to the south.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1913 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2007

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***P3a. Updated Description (continued):**

Primary entrances are located at the east and west ends of the north and south elevations and are accessed by concrete ramps edged by pipe railings. Secondary entrances are located centrally on the north, south, and rear elevations. Both original, single and double wood doors and metal replacement doors are present. Existing landscaping surrounding the building consists of a sparse amount of mature shrubs and grass. Concrete sidewalks surround the building. The property is in deteriorated condition and its doors and windows have been boarded over.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the enclosing of the original screened porch areas with wood-framed double-hung windows, replacement metal doors, and the addition of a one-story rear projection.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of General Ward 40 (LACO No. 1185) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1913 to house patients of the County Poor Farm The building also housed the wheelchair repair shop for many years. The building continued to function as a ward building and wheelchair repair shop until its use changed in the late twentieth-century to office and storage space. The building is currently abandoned.

Although the building has been somewhat altered, it exterior appearance still reflects its period of construction. An example of stripped Classicism, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: the vertical division of the exterior walls into two-story segmentally arched bays by plain raised piers, and the horizontal division of the exterior into three parts by a simple cornice topped by a parapet and raised wall base. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

The General Ward Buildings were begun under Superintendent Charles C. Manning's direction in 1912 and completed under Superintendent William R. Harriman's in the late 1920s. In 1912, Manning requested the plans drawn for the first two General Ward Buildings, later called Buildings 30 and 40 (LACO Nos. 1184 and 1185), to be constructed along the west side of Erickson Avenue south of the original Administration Building (no longer extant). The buildings were to be connected on their west (or rear) elevations by a one-story hyphen addition that provided a covered walkway and handicapped access between the two buildings. It was necessary to demolish the original pump house building and water tower for the construction of Building 30; a recording device was installed under the building to continue to record the local water table for the water district.[1] A new large steel water tower and tank were constructed to the rear of the original powerhouse (LACO No. 1302). Building 30 also housed the first receiving ward for the campus and became known as the Medical Offices and Pharmacy Building. Once the first two General Ward Buildings were completed in 1913, the old North Ward (no longer extant) reverted from a hospital ward back to its original use as a General Ward for male patients.

By 1917, the patient population had reached a new high of over 600, prompting Harriman to construct Building 50, the third General Ward Building (LACO No. 1186), directly south of Building 40.[2] To facilitate additional dining room space for the growing patient population created by these new ward buildings, as well as to provide additional employee housing, a dining room extension (south wing of LACO No. 1262) was constructed to the west (rear) of the General Ward Buildings and to the south of the Kitchen Wing circa 1920. A pedestrian bridge providing handicapped accessibility was constructed to connect the new Dining Room Wing to the rear of Buildings 30 and 40.

A fourth General Ward Building, known as Building 60 (LACO No. 1187), was constructed in the mid-1920s directly south of Building 50. The fifth and final General Ward Building, known as Building 70 (LACO No. 1188), was constructed circa 1928 south of Building 60. Building 70 was slightly separated from the first four buildings by Bonita Street. The five General Ward Buildings were positioned in a linear row facing Erickson Avenue, and the first four were connected by bridges. In later years, the use of the buildings changed from hospital wards to storage and general office space. Currently, the buildings are vacant, and in circa 2006, Building 30 (LACO No. 1184) suffered extensive fire damage to its second floor.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 74.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 89.

***Resource Name or #** (Assigned by recorder) *General Ward 50 (LACO NO. 1186)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

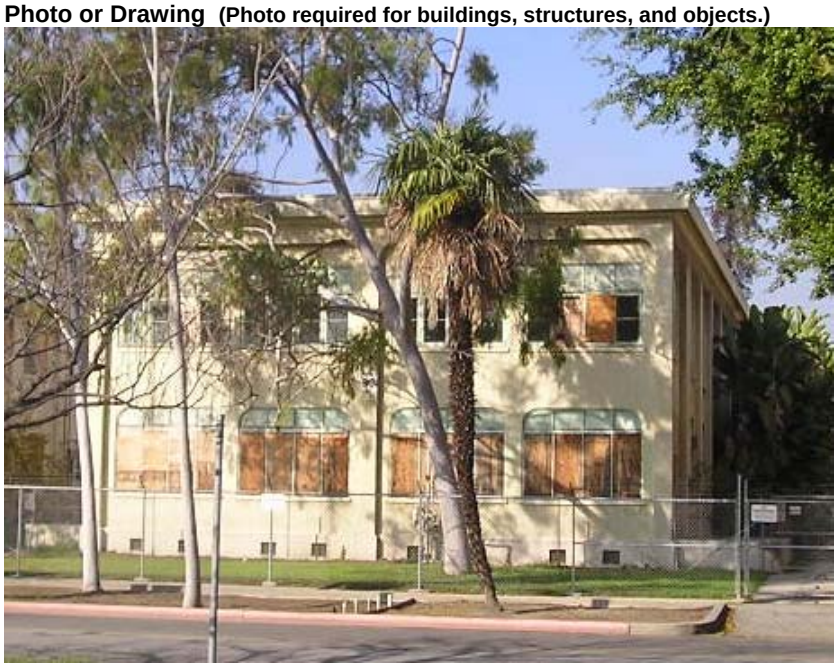
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1186* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of five nearly identical buildings, General Ward 50 (LACO No. 1186) is located on the west side of Erickson Avenue and is positioned centrally in a row of four General Ward Buildings that are sited northwest of the intersection of Erickson Avenue and Bonita Street. One additional building is located south of Bonita Street. Reflecting a stripped Classical Revival design, General Ward 50 is two-stories in height with a rectangular plan and a symmetrical east-facing façade. The building sits on a concrete foundation and has reinforced concrete exterior walls covered in painted, textured stucco. The flat roof is surmounted by a flat, monitor roof projection wrapped in a continuous linear band of metal, louver vents. At the top of the wall plate, a crown molding is topped by a plain, projecting cornice. A continuous blind arcade divides the east (primary) and west (rear) elevations into two bays, each bay containing two groups of four windows on each level. The blind arcade defines ten bays on the north and south elevations. Fenestration on these elevations is mostly single windows, two per bay. Windows are primarily wood-framed, one-over-one, double-hung sash topped by hopper type transoms. One-story hypens connect the west end of the building to General Ward 40 (LACO No.1185) to the north and General Ward 60 (LACO No. 1187) to the south. Entrances are located on the north, south, and west elevations and in the hypens and are accessed by concrete ramps edged by pipe railings. Both original, single and double wood doors and metal replacement doors are present. Existing landscaping surrounding the building consists of a sparse amount of mature shrubs and grass. Concrete sidewalks surround the building. The property is in deteriorated condition and its doors and windows have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1916 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include the enclosing of the original screened porch areas with wood-framed double-hung windows, replacement metal doors, and the addition of a one-story projection with a shed roof on the south side of the west elevation (rear).

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of General Ward 50 (LACO No. 1186) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926 to serve as a ward building to house patients of the County Poor Farm. In later years, an addition to the west elevation functioned as a bakery. The building continued to function as a ward building and bakery until its use changed in the late twentieth-century to office and storage space. The building is currently abandoned.

Although the building has been somewhat altered, it exterior appearance still reflects its period of construction. An example of stripped Classicism, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: the vertical division of the exterior walls into two-story segmentally arched bays by plain raised piers, and the horizontal division of the exterior into three parts by a simple cornice topped by a parapet and raised wall base. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

The General Ward Buildings were begun under Superintendent Charles C. Manning's direction in 1912 and completed under Superintendent William R. Harriman's in the late 1920s. In 1912, Manning requested the plans drawn for the first two General Ward Buildings, later called Buildings 30 and 40 (LACO Nos. 1184 and 1185), to be constructed along the west side of Erickson Avenue south of the original Administration Building (no longer extant). The buildings were to be connected on their west (or rear) elevations by a one-story hyphen addition that provided a covered walkway and handicapped access between the two buildings. It was necessary to demolish the original pump house building and water tower for the construction of Building 30; a recording device was installed under the building to continue to record the local water table for the water district.[1] A new large steel water tower and tank were constructed to the rear of the original powerhouse (LACO No. 1302). Building 30 also housed the first receiving ward for the campus and became known as the Medical Offices and Pharmacy Building. Once the first two General Ward Buildings were completed in 1913, the old North Ward (no longer extant) reverted from a hospital ward back to its original use as a General Ward for male patients.

By 1917, the patient population had reached a new high of over 600, prompting Harriman to construct Building 50, the third General Ward Building (LACO No. 1186), directly south of Building 40.[2] To facilitate additional dining room space for the growing patient population created by these new ward buildings, as well as to provide additional employee housing, a dining room extension (south wing of LACO No. 1262) was constructed to the west (rear) of the General Ward Buildings and to the south of the Kitchen Wing circa 1920. A pedestrian bridge providing handicapped accessibility was constructed to connect the new Dining Room Wing to the rear of Buildings 30 and 40.

A fourth General Ward Building, known as Building 60 (LACO No. 1187), was constructed in the mid-1920s directly south of Building 50. The fifth and final General Ward Building, known as Building 70 (LACO No. 1188), was constructed circa 1928 south of Building 60. Building 70 was slightly separated from the first four buildings by Bonita Street. The five General Ward Buildings were positioned in a linear row facing Erickson Avenue, and the first four were connected by bridges. In later years, the use of the buildings changed from hospital wards to storage and general office space. Currently, the buildings are vacant, and in circa 2006, Building 30 (LACO No. 1184) suffered extensive fire damage to its second floor.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 74.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 89.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

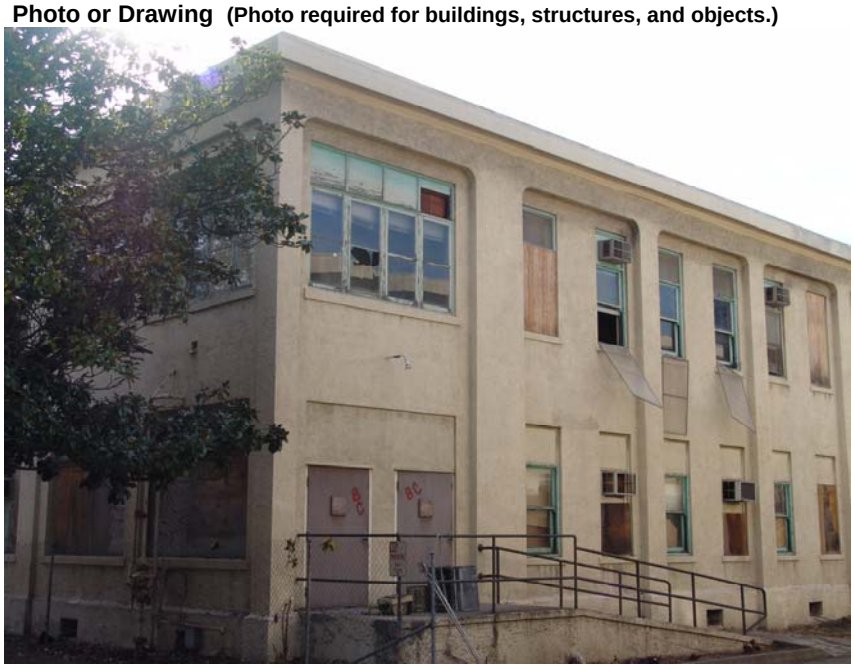
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1187* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of five nearly identical buildings, General Ward 60 (LACO No. 1187) is located on the west side of Erickson Avenue and is the southernmost in a row of four General Ward Buildings that are sited northwest of the intersection of Erickson Avenue and Bonita Street. One additional building is located south of Bonita Street. Reflecting a stripped Classical Revival design, General Ward 60 is two-stories in height with a rectangular plan and a symmetrical east-facing façade. The building sits on a concrete foundation and has reinforced concrete exterior walls covered in painted, textured stucco. The flat roof is surmounted by a flat, monitor roof projection wrapped in a continuous linear band of metal, louver vents. At the top of the wall plate, a crown molding is topped by a plain, projecting cornice. A continuous blind arcade divides the east (primary) and west (rear) elevations into two bays, each bay containing two groups of four windows on each level. The blind arcade defines ten bays on the north and south elevations. Fenestration on these elevations is mostly single windows, two per bay. Windows are primarily wood-framed, one-over-one, double-hung sash topped by hopper type transoms. A one-story hypen connects the west end of the building to General Ward 50 (LACO No.1186) to the north. Entrances are located on the north, south, and west elevations and in the hypens and are accessed by concrete ramps edged by pipe railings. Both original, single and double wood doors and metal replacement doors are present. Existing landscaping surrounding the building consists of a sparse amount of mature shrubs and grass. Concrete sidewalks surround the building. The property is in deteriorated condition and its doors and windows have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade and North Elevation, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include the enclosing of original screened porch areas with wood-framed double-hung windows and replacement metal doors.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of General Ward 60 (LACO No. 1187) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926 to house patients of the County Poor Farm and continued in this capacity until its use changed in the late twentieth-century to office and storage space. The building is currently abandoned.

Although the building has been somewhat altered, it exterior appearance still reflects its period of construction. An example of stripped Classicism, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: the vertical division of the exterior walls into two-story segmentally arched bays by plain raised piers, and the horizontal division of the exterior into three parts by a simple cornice topped by a parapet and raised wall base. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

The General Ward Buildings were begun under Superintendent Charles C. Manning's direction in 1912 and completed under Superintendent William R. Harriman's in the late 1920s. In 1912, Manning requested the plans drawn for the first two General Ward Buildings, later called Buildings 30 and 40 (LACO Nos. 1184 and 1185), to be constructed along the west side of Erickson Avenue south of the original Administration Building (no longer extant). The buildings were to be connected on their west (or rear) elevations by a one-story hyphen addition that provided a covered walkway and handicapped access between the two buildings. It was necessary to demolish the original pump house building and water tower for the construction of Building 30; a recording device was installed under the building to continue to record the local water table for the water district.[1] A new large steel water tower and tank were constructed to the rear of the original powerhouse (LACO No. 1302). Building 30 also housed the first receiving ward for the campus and became known as the Medical Offices and Pharmacy Building. Once the first two General Ward Buildings were completed in 1913, the old North Ward (no longer extant) reverted from a hospital ward back to its original use as a General Ward for male patients.

By 1917, the patient population had reached a new high of over 600, prompting Harriman to construct Building 50, the third General Ward Building (LACO No. 1186), directly south of Building 40.[2] To facilitate additional dining room space for the growing patient population created by these new ward buildings, as well as to provide additional employee housing, a dining room extension (south wing of LACO No. 1262) was constructed to the west (rear) of the General Ward Buildings and to the south of the Kitchen Wing circa 1920. A pedestrian bridge providing handicapped accessibility was constructed to connect the new Dining Room Wing to the rear of Buildings 30 and 40.

A fourth General Ward Building, known as Building 60 (LACO No. 1187), was constructed in the mid-1920s directly south of Building 50. The fifth and final General Ward Building, known as Building 70 (LACO No. 1188), was constructed circa 1928 south of Building 60. Building 70 was slightly separated from the first four buildings by Bonita Street. The five General Ward Buildings were positioned in a linear row facing Erickson Avenue, and the first four were connected by bridges. In later years, the use of the buildings changed from hospital wards to storage and general office space. Currently, the buildings are vacant, and in circa 2006, Building 30 (LACO No. 1184) suffered extensive fire damage to its second floor.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 74.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 89.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

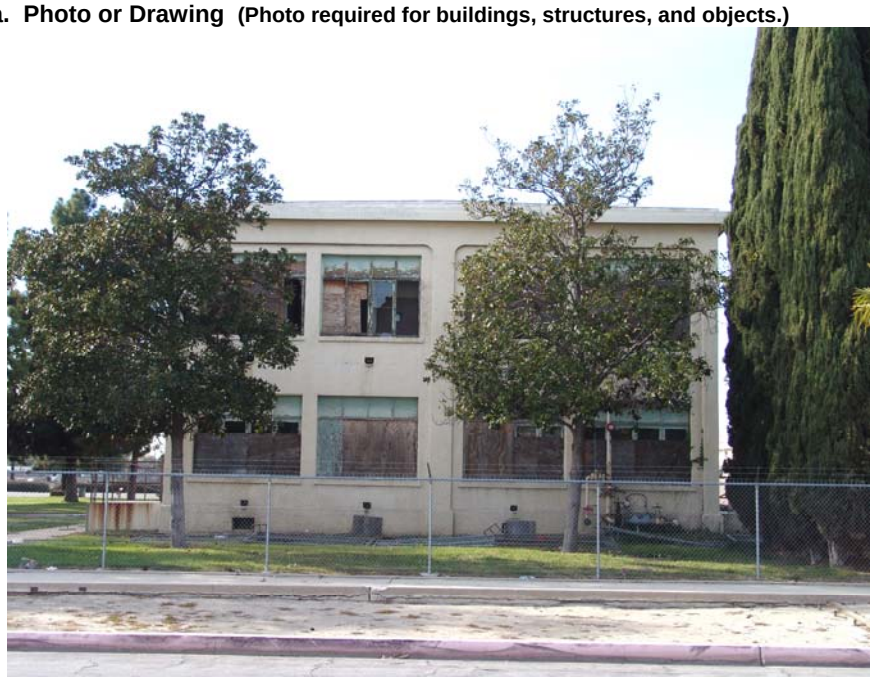
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1188* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of five nearly identical buildings, General Ward 70 (LACO No. 1188) is located on the southwest corner of the intersection of Erickson Avenue and Bonita Street. Four additional General Ward Buildings are located north of the intersection. Reflecting a stripped Classical Revival design, General Ward 70 is two-stories in height with a rectangular plan and a symmetrical east-facing façade. The building sits on a concrete foundation and has reinforced concrete exterior walls covered in painted, textured stucco. A flat roof caps the building. At the top of the wall plate, a crown molding is topped by a plain, projecting cornice. A continuous blind arcade divides the east (primary) and west (rear) elevations into two bays, each bay containing two groups of four windows on each level. The blind arcade defines ten bays on the north and south elevations. Fenestration on these elevations is mostly single windows, two per bay. Windows are primarily wood-framed, one-over-one, double-hung sash topped by hopper type transoms. A one-story hypen connects the west end of the building to General Ward 50 (LACO No.1186) to the north. Entrances are located on the north, south, and west elevations. Both original, single and double wood doors and metal replacement doors are present. A shed-roofed, concrete loading dock is attached to the west elevation. Existing landscaping surrounding the building consists of a sparse amount of mature shrubs and grass. Concrete sidewalks surround the building. The property is in deteriorated condition and its doors and windows have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91105

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include the sealing-up of window and door openings, the replacement of wood doors with metal doors, and the replacement of original screened porch areas with wood-framed double-hung windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of General Ward 60 (LACO No. 1187) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 to house patients of the County Poor Farm and continued in this capacity until its use changed in the late twentieth-century to office and storage space. The building is currently abandoned.

Although the building has been somewhat altered, it exterior appearance still reflects its period of construction. An example of stripped Classicism, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: the vertical division of the exterior walls into two-story segmentally arched bays by plain raised piers, and the horizontal division of the exterior into three parts by a simple cornice topped by a parapet and raised wall base. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

The General Ward Buildings were begun under Superintendent Charles C. Manning's direction in 1912 and completed under Superintendent William R. Harriman's in the late 1920s. In 1912, Manning requested the plans drawn for the first two General Ward Buildings, later called Buildings 30 and 40 (LACO Nos. 1184 and 1185), to be constructed along the west side of Erickson Avenue south of the original Administration Building (no longer extant). The buildings were to be connected on their west (or rear) elevations by a one-story hyphen addition that provided a covered walkway and handicapped access between the two buildings. It was necessary to demolish the original pump house building and water tower for the construction of Building 30; a recording device was installed under the building to continue to record the local water table for the water district.[1] A new large steel water tower and tank were constructed to the rear of the original powerhouse (LACO No. 1302). Building 30 also housed the first receiving ward for the campus and became known as the Medical Offices and Pharmacy Building. Once the first two General Ward Buildings were completed in 1913, the old North Ward (no longer extant) reverted from a hospital ward back to its original use as a General Ward for male patients.

By 1917, the patient population had reached a new high of over 600, prompting Harriman to construct Building 50, the third General Ward Building (LACO No. 1186), directly south of Building 40.[2] To facilitate additional dining room space for the growing patient population created by these new ward buildings, as well as to provide additional employee housing, a dining room extension (south wing of LACO No. 1262) was constructed to the west (rear) of the General Ward Buildings and to the south of the Kitchen Wing circa 1920. A pedestrian bridge providing handicapped accessibility was constructed to connect the new Dining Room Wing to the rear of Buildings 30 and 40.

A fourth General Ward Building, known as Building 60 (LACO No. 1187), was constructed in the mid-1920s directly south of Building 50. The fifth and final General Ward Building, known as Building 70 (LACO No. 1188), was constructed circa 1928 south of Building 60. Building 70 was slightly separated from the first four buildings by Bonita Street. The five General Ward Buildings were positioned in a linear row facing Erickson Avenue, and the first four were connected by bridges. In later years, the use of the buildings changed from hospital wards to storage and general office space. Currently, the buildings are vacant, and in circa 2006, Building 30 (LACO No. 1184) suffered extensive fire damage to its second floor.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 74.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 89.

***Resource Name or #** (Assigned by recorder) *Patient Ward 201 (LACO No. 1189)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1189* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 201 (LACO No. 1189) is located on the northwest corner of Descanso Street and Hawthorn Street and is the eastern anchor of a row of nine patient wards that spans the block between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 201 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and West Elevation, Facing Northeast , January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1923 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door. A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; a one-story connecting addition added centrally to the west elevation connecting the building to Patient Ward/Building No. 202 (LACO No. 1190); and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 201 (LACO No. 1189) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1923 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1190* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 202 (LACO No. 1190) is located in the east half of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 202 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and West Elevation, Facing Northeast , January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1923 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; a one-story connecting addition added centrally to the east elevation connecting the building to Patient Ward/Building No. 201 (LACO No. 1189); and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 202 (LACO No. 1190) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1923 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1191* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 203 (LACO No. 1191) is located in the east half of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 203 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door. A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and West Elevation, Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1923 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***P3a. Updated Description (continued):**

A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; added stucco to the screened porch located on the north (rear) elevation; and a one-story addition connecting this building to Patient Ward 204 (LACO No. 1192) centrally on its west elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 203 (LACO No. 1191) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1923 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1192* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 204 (LACO No. 1192) is located in the east half of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 204 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1923 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***P3a. Updated Description (continued):**

A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-framed, one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; the addition of stucco to the screened porch located on the north (rear) elevation; and a one-story addition connecting this building centrally on its east elevation to Patient Ward 203 (LACO No. 1191).

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 204 (LACO No. 1192) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1923 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1193* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 205 (LACO No. 1193) is located in the middle of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 205 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door. A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 205 (LACO No. 1193) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Resource Name or #** (Assigned by recorder) *Patient Ward 206 (LACO No. 1194)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1194* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 206 (LACO No. 1194) is located in the west half of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 206 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and West Elevation, Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:** (Name, affiliation, and address)
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 206 (LACO No. 1196) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1195* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 207 (LACO No. 1195) is located in the west half of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 207 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 207 (LACO No. 1195) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1196* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 208 (LACO No. 1196) is located near the west end of a row of nine patient wards that spans the block of Descanso Street between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 208 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***P3a. Updated Description (continued):**

A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 208 (LACO No. 1196) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Resource Name or #** (Assigned by recorder) *Patient Ward 209 (LACO No. 1197)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1197* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 209 (LACO No. 1197) is located on the northeast corner of Descanso Street and Laurel Street and is the western anchor of a row of nine patient wards that spans the block between Hawthorn Street and Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the grouping. Two additional patient wards are located west of Laurel Street. Patient Ward 209 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundation, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional ward space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement. Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railings provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 209 (LACO No. 1197) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1198* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 210 (LACO No. 1198) is located on the northwest corner of Descanso Street and Laurel Street, and is one of two patient wards which are positioned directly northwest of a row of nine patient wards situated to the east of Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the two buildings. Patient Ward 210 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south and north end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundations, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door. A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional war space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***P3a. Updated Description (continued):**

Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railing provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of some original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; the addition of a concrete ramp along the eastern end of the façade; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 210 (LACO No. 1198) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

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[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1199* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of eleven nearly identical buildings, Patient Ward 211 (LACO No. 1199) is located adjacent to the northwest corner of Descanso Street and Laurel Street, and is one of two patient wards which are positioned directly northwest of a row of nine patient wards situated to the east of Laurel Street. A continuous veranda along the Descanso Street elevations is the focal point of the two buildings. Patient Ward 211 is one-story, asymmetrical in appearance, and vernacular in design. It is rectangular in plan and substantially longer than it is wide. The wood-framed building is capped by a high-pitched, front-gable-on-hip roof with moderately over-hanging eaves, exposed rafter tails, and triangular brace supports. Composition shingles cover the roof. A gable projection is located at the south and north end of the west elevation roof. Vents composed of horizontal louvers fill the upper portions of the gable ends. Triangular dormer vents and skylights are located on the east and west elevations. The building sits on a concrete slab foundation, and the exterior walls are reinforced concrete covered in smooth stucco. The primary entrance faces south onto the veranda, which is characterized by a raised concrete foundations, a shed roof with exposed beams and trusses, square wood posts, and iron pipe railings. Plain wood trim with extended lintels frames the entry, whose original door has been replaced by a non-original metal door. A full-length, wood-framed, screened porch on the east elevation, capped by a shed roof projection, was enclosed to provide additional war space. A secondary entrance, accessed by a concrete stoop, is located on the rear elevation; the rear door is also a metal replacement.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

Original fenestration on all elevations can generally be described as bands of original wood-frame, one-over-one, double-hung sash windows with transoms, irregularly arranged, whose plain wood casings are characterized by slightly extended lintels. Also present are wood-frame one-light hopper windows with transoms and double-casement windows. Wood slat awnings have been added to west-facing windows. Concrete ramps and staircases with iron pipe railing provide access to the building. Existing landscape features include mature trees, shrubs, grass and vestiges of the original flower gardens. Character-defining features include: horizontal massing and rectangular plan, continuous veranda on the south-facing façade, medium-pitched complex roof consisting of gable and hipped projections, linear bands of windows, and projecting screened porches. The property is in deteriorated condition and its windows and doors have been covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the removal of original windows; the replacement of original wood doors with metal doors; the replacement of original screens with boards; and added stucco to the screened porch located on the north (rear) elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Patient Ward 211 (LACO No. 1199) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Thirteen patient wards were constructed between 1923 and 1928 to treat chronically ill patients, marking the evolution of the mission of the County Farm from the housing and care of indigents to a long-term hospital facility. This building is one of the eleven extant examples of this property type in the Historic District.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. A vernacular style building, it retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features: horizontal-massing and rectangular plan; continuous veranda on a raised foundation; high-pitched complex roof consisting of gable and hipped projections; linear bands of windows; and projecting screened porches. Its setting has been altered through the loss of westernmost two of the original ward buildings in the late 1990s, and the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

In 1922, Superintendent William R. Harriman began the construction of four Infirmary Ward buildings at the County Poor Farm. By 1923, the first four wards had been completed and an additional four were under construction. Approximately 130 bedridden patients were transported by ambulance from County Hospital to be housed in the new wards.[1] By 1926, 8 wards had been completed and a ninth ward was under construction. A total of 260 invalid patients were housed in the wards, with additional patients continuing to transferring from the County Hospital to the new wards at a steady rate.[2] By 1928, 13 wards had been completed, and all were filled to capacity with a waiting list of some 200 patients. In 1936, the sleeping porches on the wards were permanently enclosed and equipped to handle the care of 15 additional patients.

Although the Infirmary Wards were constructed over a period of several years, they adhered to a common design and thus display similar materials and character-defining features. Historic architectural plans for the buildings reveal two different ward styles, referred to in the plans as Type A and Type B, which varied slightly in appearance, floor plan, and roof configuration.3 Concurrent with the construction of the Infirmary Wards, a new road was laid out between the Power Plant (LACO No. 1300) and the Bathhouse/Ward Building (LACO No. 1260). Originally known as Infirmary Drive and now called Descanso Street, this east-west-running road served as a western continuation of Consuelo Street. An elevated, continuous veranda linked the south facades of the Infirmary Wards, facing the new road, and provided the fresh air and views for the patients that was believed to assist with their recovery and relieve their ailments. In addition, the gardens were planted around and between the buildings to provide a pleasant calming atmosphere for the patients, in keeping with the historic park-like landscape of the District.

During the 1930s, Harriman applied for additional funding from the Progressive Works Administration (PWA) to construct additional ward buildings. Harriman envisioned that the new wards would be located by the new Administration Building (LACO No. 1100). He wrote the following excerpt in the publication The Story of Rancho in 1934:

"Applications are now pending for Federal funds to erect a series of smaller ward buildings on this tract, as there is a very urgent need for additional accommodations for infirmary patients. These buildings are to be only one story high, of reinforced concrete, housing 50 to 60 persons each, and connected by means of a covered arcade with the Administration Building for the group. The construction of additional ward buildings in the infirmary group would permit a very considerable saving to the County as there are 524 persons who have qualified for entrance but are now maintained in private institutions all over the County because of lack of accommodations at the Rancho. The cost of care at these outside homes is higher than the cost here where facilities are so much better for care of the sick; also their wide distribution in rest homes makes supervision and control if they were concentrated at a County institution."[4]

According to a 1933 Los Angeles Times article, Harriman had applied for $300,000 to fund the new Infirmary Wards.[5] Construction bids for the new buildings began August 13, 1934; however, the additional ward buildings were never constructed, presumably due to the lack of allotment of PWA funding.[6]

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, p. 105. Downey, CA: Rancho Los Amigos Medical Center.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*, pp. 118–119. Downey, CA: Rancho Los Amigos Medical Center.

3 County of Los Angeles. 1922-1926. Architectural Plans, Patient Wards. On file at Sapphos Environmental, Inc.

[4] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

[5] "County Works List Complete." 1933. *Los Angeles Times*. July 24, p. A1.

[6] "Hum of Activity Marks Project Developments—Improvements Now Under Way and Definitely Planned Total More Than $8,000,000." 1934. *Los Angeles Times*. August 5, p. 23.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

CONTINUATION SHEET

Primary #
HRI#
Trinomial

Page *1* **of** *1* ***Resource Name or #** (Assigned by recorder) *Patient Ward 212 (LACO NO. 1200)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1200* **NR Status Code:** *Not Addressed*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Patient Ward 212 (LACO No. 1200) was originally located west of Laurel Street between Descanso and Esperanza Streets. Nearly identical in appearance to the eleven remaining Patient Wards to the east (LACO Nos. 1189-1199), the building was demolished some time in the late 20th century. Nothing remains of this building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos south Campus Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources (CRHR) (under Criterion 1). The current study confirmed that Patient Ward 212 (LACO No. 1200) is no longer a contributor to the Historic District under Criterion 1 due to its demolition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

Photograph Not Available

P5b. Description of Photo: (View, date, accession #)

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

State of California — The Resources Agency **Primary #**
DEPARTMENT OF PARKS AND RECREATION **HRI#**

CONTINUATION SHEET

Trinomial

Page *1* **of** *1* ***Resource Name or #** (Assigned by recorder) *Patient Ward 214 (LACO NO. 1201)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO # 1201* **NR Status Code:** *Not addressed*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Patient Ward 214 (LACO No. 1201) was originally located west of Laurel Street between Descanso and Esperanza Streets. Nearly identical in appearance to the eleven remaining Patient Wards to the east (LACO Nos. 1189-1199), the building was demolished some time in the late 20th century. Nothing remains of this building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos south Campus Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources (CRHR) (under Criterion 1). The current study confirmed that Patient Ward 214 (LACO No. 1201) is no longer a contributor to the Historic District under Criterion 1 due to its demolition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

Photograph Not Available

P5b. Description of Photo: (View, date, accession #)

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1202, 1203* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Consisting of two buildings, the Women's Psychiatric Ward complex is located centrally in the block bounded by Golondrinas Street to the north, Erickson Avenue to the west, Dahila Avenue to the east, and Consuelo Street to the south. The complex consists of two one-story brick vernacular style buildings and was constructed in two stages; the first ward (LACO No. 1203) in 1919 and the second ward (LACO No. 1202) in 1924. The two buildings enclose a large, interior courtyard. Grassy setbacks flank the east and west sides of the complex. The overall quadrangle plan consists of two "H-shaped" ward buildings connected by one-story concrete block wall hyphens. The complex is symmetrical in appearance with horizontal massing. Projecting one-story wings are located on the north and south ends of the west-facing façade and east elevation (rear). One-story square projecting bathroom wings surmounted by a hipped roof are located on the north and south elevations, and partial-width enclosed porches project from interior courtyard elevations. The exterior walls of both buildings in the complex are clad in painted brick laid in common bond pattern, with the exception of the west and north elevation of LACO No. 1203, which has replacement horizontal metal siding over the original brick walls. The roof configuration incorporates multiple medium-pitched hips and gables-on-hips with overhanging eaves. It is sheathed in composition shingles. Exposed rafters and beams are visible underneath the eaves.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1919 and 1924 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

Gabled dormers with louvered vents project from the roof, and triangular vents are located in the gable ends. Galvanized iron skylights with wire glass are located just below the ridgeline on the north and south bathroom projections. Corbelled brick courses define the wall base and a cornice and frieze on the bathroom wings. All windows are set in segmental arched window openings with lintels of double and triple bands of header bricks. Original windows (where extant) include: four-over-four double-hung sash windows; one-over-one light double-hung sash windows; one-light fixed windows; and four-over-four fixed windows. All windows are flat-headed and trimmed by slightly projecting header brick window sills. The primary entrance is located centrally on the west façade and is defined by a partial-width porch with vertical posts supporting a front gabled roof and a raised concrete stoop. Additional entrances are located on all exterior elevations, and also on each interior courtyard elevation, accessed by raised concrete walkways. Entrances are defined by segmental arched door openings with triple header bands and flat-headed door openings trimmed by wide door moldings. Original wood doors include (where extant) paneled and glazed doors with and without transom. Replacement metal doors are located throughout the building. Existing landscaping consists of mature grass, shrubs, and trees. A series of outbuildings are located within the courtyard. Concrete sidewalks and ramps surround the building. The property is in good condition.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations as they appear from historic photographs include the addition of metal horizontal siding to the west façade and north and south elevations of LACO No. 1203, the replacement of the original split-wood shingled roof with composition shingles, and the replacing of original wood doors with metal doors.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The buildings were erected in 1919 and 1924 to house the mentally unstable female patients sent to the County Poor Farm by the Los Angeles County Hospital. The complex was built was during a large building imitative in the 1920s directed by the Poor Farm's most influential superintendent, William R. Harriman (1915-1931; 1933-1952). The first psychiatric facility at the Poor Farm was the Psychiatric Ward building, constructed in 1907 (now the Men's Psychiatric Ward (LACO No. 1205). This facility housed both males and females. The first ward exclusively for women mental patients was completed directly south of the men's ward in 1919. A second women's ward was completed in 1924, mirroring the original ward and enclosing a courtyard. The Women's Psychiatric Ward Complex was converted to office and storage space in the late-twentieth century. The buildings are no longer occupied but continue to be used for storage.

Although the buildings have been somewhat altered, their exterior appearance still reflects its period of construction. An example of brick vernacular construction, the Women's Psychiatric Ward complex retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features, which include: one-story height, horizontal massing and double H-shaped, courtyard plan; medium-pitched, complex roof consisting of hipped and gable-on-hip sections, punctuated by gabled roof vents; rafters with rounded tails exposed in overhanging eaves; concrete foundation regularly pierced by vents; brick (painted) exterior walls laid in common bond; sill above the foundation composed of three raised brick courses; regular fenestration pattern of evenly spaced window openings with segmental arched heads; segmental arch door openings; attached porches at the entries on the west (primary) and east facades; projecting (enclosed) porch spaces facing the interior courtyard; and interior brick chimney on the east (rear).

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

Beginning in the early 1900s, one of the most pressing issues for the County of Los Angeles was how to care for the growing numbers of mentally unstable patients. By 1901, the California state mental hospitals were suffering from overcrowding, resulting in many patients being sent to county hospitals. By 1905, Los Angeles County Hospital had exceeded its patient capacity and began calling upon the County Poor Farm to help with the patient overflow, including those with mental conditions.[1]

Until 1907, patients labeled as "harmlessly insane" were housed in the General Wards (no longer extant) with the other campus patients. When funds were made available for a dedicated facility, the original psychiatric ward at Rancho Los Amigos was constructed under the direction of Superintendent Clarke in 1907. It was a single-story brick building located at the intersection of Erickson Avenue and Golondrinas Street. In plan, the building consisted of two rows of rooms, each with a window, on either side of a central corridor. The men's section was on the north side of the corridor, and the women's was on the south side. The windows were barred and had heavy wire screens, and the doors were kept padlocked. The patients were locked outside of their rooms for a few hours each day to sit under shaded trees in a fenced yard to get fresh air and sunshine.

The psychiatric ward building (LACO No. 1205) was enlarged several times, beginning in 1909. The original single-story, bar shaped building was expanded to form a U shape enclosing a courtyard area by the addition of two parallel wings on its north and south elevations. These wings were elongated in 1916 for additional ward space, and a partial second story was added to house the resident attendants. Also at this time, a projecting cafeteria wing was constructed along the center of the east (rear) elevation of the original 1907 building.

By 1918, the Rancho Los Amigos insane population had risen to more than 160 patients, and Superintendent Harriman was forced to seek funding for a separate building to house the women psychiatric patients. The new ward (LACO No. 1203) was constructed in 1919 and was located directly south of the Men's Psychiatric Ward Building. It was designed in an H shape and accommodated centrally located matron's and administrative rooms; a wing to house the kitchen and dining room; a wing for the patient rooms; and a fenced inner courtyard with a lawn, trees, and flowers.

The numbers of insane patients continued to rise each year, reaching 257 in 1924.[2] *Plans were initiated by Harriman to begin the construction of two new ward buildings, for 156 men and 98 women, respectively, to be built directly east of the existing psychiatric ward buildings. The new men's ward (LACO No. 1204) opened in late 1924, followed by the new women's ward (LACO No. 1202) in the summer of 1925. Both buildings basically mirrored the design and configuration of the original wards. New, one-story wall hyphens connected the two men's ward buildings and the two women's ward buildings, each at their north and south elevations. These wall connectors created an enclosed courtyard space, which allowed the patients to roam in a confined area. Over the next several years, additional, freestanding, mostly brick vernacular style buildings (LACO Nos. 1239, 1240, 1241, 1243, 1244, 1245, 1249, and 1251) were constructed within the courtyard areas of the two psychiatric ward complexes. These buildings served several functions, including linen rooms, toilet buildings, and open shelters. In 1931, the Aviary, the sole remnant of the 19th-century Poor Farm, was moved to the courtyard of the Men's Psychiatric Ward Complex in hopes of bringing a sense of calmness to the patients.*

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, 63.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, 33.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *July 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1204, 1205* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Consisting of two "U-shaped" buildings that enclose a rectangular, central courtyard, the Men's Psychiatric Ward Complex (LACO No. 1204 & 1205)occupies the north half of the block bounded by Golondrinas Street to the north, Dahlia Avenue to the east, Consuelo Street to the south, and Erickson Avenue to the west. Mostly one-story in height, the wards present a nearly symmetrical appearance on their primary, west and east elevations. A medium-pitched, hipped and hip-on-gable roof, punctuated by front-gabled vents, caps the building. Rafters are exposed in the overhanging eaves. Galvanized iron skylights with wire glass and interior chimneys are located just below and on the roof ridgeline. Two-story, flat-roofed pavilions are offset to the west on the north and south elevations. The exterior walls are brick, laid in common bond pattern and painted. Horizontal metal siding has been installed over the brick on the west half of the complex. Attached, hip-roofed porches project towards the street on the west and east elevations and contain the primary entrances. Window and door openings are defined by segmental arch heads articulated by triple courses of header bricks. Original windows, where extant, are wood-framed and include: four-over-four double-hung sash windows; one-over-one double-hung sash windows; one-light fixed windows; and four-over-four fixed windows.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Elevation, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1907-1924 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
July 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

All windows are flat-headed and trimmed by slightly raised header sills. Both original wood doors and replacement metal doors are present. Additional entrances are located within the interior courtyard. Courtyard projections contain sunrooms. Elevated concrete walkways and ramps provide access to the secondary and courtyard building entries. Segmental arched door openings with triple header bands frame extant original wood doors and replacement metal doors. Grassy set-backs are located at the east and west street frontage. The interior courtyard is characterized by trees and overgrown landscaping, and contains a number of accessory buildings. The complex is in fair condition and its windows and doors have been boarded over.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for these buildings. Alterations as they appear from historic photographs include the replacement of the original split-wood shingled roof with composition shingles, the replacement of original wood doors with metal doors, and the addition of metal horizontal siding on the west façade, and north and south elevations of LACO No. 1205.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The Men's Psychiatric Ward Complex was erected in several stages from 1907 to 1924. The oldest part of the complex, LACO No. 1205 on the west, initially housed both male and female "psychopathic wards." Initially constructed to house mentally unstable patients transferred from the County Hospital, the facility eventually was considered one of the outstanding psychiatric ward faculties in the State of California. It provided ward space and medical care for hundreds of Los Angeles County patients for many years until the facility was closed in the late twentieth-century, and the buildings converted to offices and storage. The buildings are currently abandoned.

Although the complex has been somewhat altered, its exterior appearance still reflects its period of construction. An example of brick vernacular styling, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features, including: horizontal massing and overall symmetry of design; courtyard plan; one- and two-story height; brick exterior walls; hipped and gable-on-hip roof; segmental arched window and door openings with triple header bands; raised and corbelled brick courses defining belt courses; and attached entry porches. Its setting has been altered through the deterioration of the surrounding landscape.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

Beginning in the early 1900s, one of the most pressing issues for the County of Los Angeles was how to care for the growing numbers of mentally unstable patients. By 1901, the California state mental hospitals were suffering from overcrowding, resulting in many patients being sent to county hospitals. By 1905, Los Angeles County Hospital had exceeded its patient capacity and began calling upon the County Poor Farm to help with the patient overflow, including those with mental conditions.[1]

Until 1907, patients labeled as "harmlessly insane" were housed in the General Wards (no longer extant) with the other campus patients. When funds were made available for a dedicated facility, the original psychiatric ward at Rancho Los Amigos was constructed under the direction of Superintendent Clarke in 1907. It was a single-story brick building located at the intersection of Erickson Avenue and Golondrinas Street. In plan, the building consisted of two rows of rooms, each with a window, on either side of a central corridor. The men's section was on the north side of the corridor, and the women's was on the south side. The windows were barred and had heavy wire screens, and the doors were kept padlocked. The patients were locked outside of their rooms for a few hours each day to sit under shaded trees in a fenced yard to get fresh air and sunshine.

The psychiatric ward building (LACO No. 1205) was enlarged several times, beginning in 1909. The original single-story, bar shaped building was expanded to form a U shape enclosing a courtyard area by the addition of two parallel wings on its north and south elevations. These wings were elongated in 1916 for additional ward space, and a partial second story was added to house the resident attendants. Also at this time, a projecting cafeteria wing was constructed along the center of the east (rear) elevation of the original 1907 building.

By 1918, the Rancho Los Amigos insane population had risen to more than 160 patients, and Superintendent Harriman was forced to seek funding for a separate building to house the women psychiatric patients. The new ward (LACO No. 1203) was constructed in 1919 and was located directly south of the Men's Psychiatric Ward Building. It was designed in an H shape and accommodated centrally located matron's and administrative rooms; a wing to house the kitchen and dining room; a wing for the patient rooms; and a fenced inner courtyard with a lawn, trees, and flowers.

The numbers of insane patients continued to rise each year, reaching 257 in 1924.[2] *Plans were initiated by Harriman to begin the construction of two new ward buildings, for 156 men and 98 women, respectively, to be built directly east of the existing psychiatric ward buildings. The new men's ward (LACO No. 1204) opened in late 1924, followed by the new women's ward (LACO No. 1202) in the summer of 1925. Both buildings basically mirrored the design and configuration of the original wards. New, one-story wall hyphens connected the two men's ward buildings and the two women's ward buildings, each at their north and south elevations. These wall connectors created an enclosed courtyard space, which allowed the patients to roam in a confined area. Over the next several years, additional, freestanding, mostly brick vernacular style buildings (LACO Nos. 1239, 1240, 1241, 1243, 1244, 1245, 1249, and 1251) were constructed within the courtyard areas of the two psychiatric ward complexes. These buildings served several functions, including linen rooms, toilet buildings, and open shelters. In 1931, the Aviary, the sole remnant of the 19th-century Poor Farm, was moved to the courtyard of the Men's Psychiatric Ward Complex in hopes of bringing a sense of calmness to the patients.*

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, 63.

[2] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Downey, CA: Rancho Los Amigos Medical Center, 33.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1207* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Work Preparation Center No. 2 (LACO No. 1207) is located in the block bounded by Descanso Street to the north, Juniper Street to the east, Bonita Street to the south, and Laurel Street to the west. Exhibiting a monitor roof, or raised roof, barn design, the rectangular building sits on a concrete foundation. Exterior walls are clad in panels of corrugated, metal siding. Windows are unevenly spaced around the exterior and consist of a series of original multi-light windows trimmed by raised wood sills. The west-facing façade is nearly symmetrical with a central entrance containing a wood paneled and glazed door flanked on either side by large, wood, sliding doors with X-patterned paneling. Hayloft doors are centered over the ground level entry. A secondary entrance is located on the east elevation (rear) and consists of a set of double wooden and glazed doors. Hayloft doors at the roof apex are also located on this elevation. A non-original open shed is attached to the north end of the east elevation, and a corrugated metal canopy links the east elevation to LACO No. 1259. The existing landscaping surrounding Work Preparation Center No. 2 consists of weeds and mature shrubs at the building's west facade. Concrete sidewalks and driveways flank the building to the north, east, and south. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West façade and North Elevation, Facing Southeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1925 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include the addition of an open shed, and attached corrugated canopy and awnings to the building's east elevation.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Work Preparation Center No. 2 (LACO No. 1207) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1925, presumably in association with the agricultural activities at the Poor Farm. A 1930 aerial photograph of Rancho Los Amigos illustrates a monitor barn a little to the west of, and perpendicular to, LACO No. 1207's current location, raising the possibility that this building was either moved or resembled another barn that was subsequently removed.[1] During the Depression, this building had been converted into an ambulatory ward (Fliedner, p. 211). A World War II era photograph shows this building with signs indicating that it functioned both as Ward 104 and as a the Warco production office (Fliedner, pp. 200-201). Warco was an association of Rancho patients who contracted for piece work in the aircraft industry. Following the war, the building was taken over by the Rancho Crafters, patients who had learned crafts under the occupational therapy program who began making products for sale. Eventually the building became known as the Rehabilitation Center or Rehab Shop. In the last quarter of the 20th century, the building was used for steam fitting and the refrigeration shops. It is currently vacant.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. Utilitarian in style, the building retains integrity of feeling, association, design, materials, and workmanship. The building has retained most of its character-defining features, including monitor barn design, sliding x-paneled barn doors, and hayloft doors. Its setting has been altered through the deterioration of the surrounding landscape and its location may have been shifted slightly.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888-1988.* Downey, California: Rancho Los Amigos Medical Center. Inside Back Cover.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

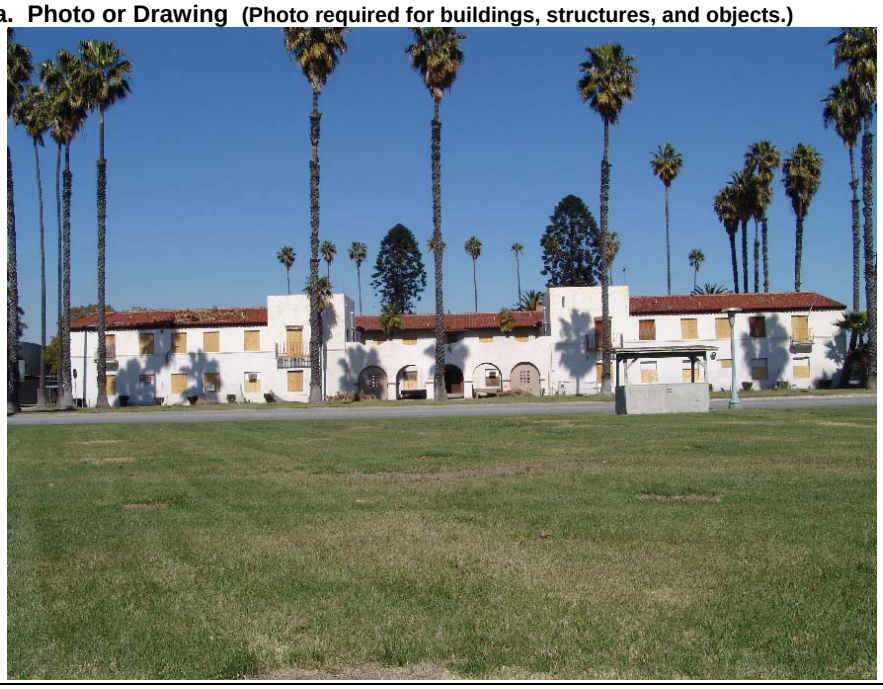
2. **Resource Identifier:** *LACO #1238* **NR Status Code:** *3[S]*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Casa Consuelo (LACO No. 1238) is located directly north of Consuelo Street at the intersection of Consuelo Street and Dahlia Avenue and faces the broad lawn located to the southwest of Consuelo Street. Designed in the Spanish Colonial Revival style, the two-story building has an irregular H-shaped plan with projecting wings and features. It horizontally massed beneath a complex hipped and gabled roof covered in red clay tiles. Casa Consuelo is constructed of board-form concrete painted white and sits on a concrete foundation. A stringcourse wraps the exterior walls beneath the second story. Courtyards set behind arcades are located on the south (primary), north and east elevations. Square, flat-roofed towers abut the arcade on either side on the south. A decoratively scalloped, wooden frieze board wraps the walls beneath shallow eaves, except in the courtyards where carved brackets support overhanging eaves. Scalloped parapets top each arcade. Impost moldings trim the piers. The east and west bays of the south arcade are blind and pierced by vents composed of twelve small square openings. Attic vents in the gable ends are small, rectangular openings filled with a zigzag design of clay tiles. Wrought iron balconies in the towers, end and middle bays, and courtyards are variously designed, with corbelled supports or wrought iron brackets; some are shaded by hoods that extend from the roof on wrought iron brackets.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade, Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1930 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***P3a. Updated Description (continued from page 1):**

Fenestration consists of wood-framed, flat-headed single and double casement windows recessed into the window openings with slightly projecting concrete sills. The primary south entrance and secondary east entrance are set within flattened arch recesses and contain paneled and glazed double doors and sidelights adorned with spindle grilles and topped by transoms. Additional entrances are located on both the north and west elevations and contain non-original double metal doors. At least one original wrought iron pendant light illuminates one entry.

Mature trees, shrubs, grass, and vestiges of the original Mediterranean landscaping provide the setting for Casa Consuelo. Concrete sidewalks surround the building and concrete driveways are located on north and west elevations. The property is in deteriorated condition and its windows and doors are covered with boards. The building retains sufficient integrity to convey its period of significance.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: replacement of some original doors and windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Casa Consuelo (LACO No. 1238) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. In addition, the building illustrates several of the distinctive characteristics of the Spanish Colonial Revival style, including its red clay tile roof, decorative use of wood and wrought iron, and incorporation of arcades, courtyards, and balconies into its design. Resembling a women's dormitory more than a hospital building, the Casa Consuelo also appears to be eligible to the National Register of Historic Places and California Register of Historical Resources under Criterion C/3. The building was erected in 1930 as the second women's ward for the County Poor Farm. Casa Consuelo provided a private and separate area for the women patients of the Poor Farm in a planned setting more conducive to their needs and comfort. The building served in this capacity until it was later converted to office and storage space. It is currently abandoned.

Although the building has suffered minor alterations, its exterior appearance still reflects its period of construction. An example of the Spanish Colonial Revival style, the building retains integrity of location, feeling, association, design, materials, and workmanship. The building has retained its Spanish Colonial Revival style character-defining features: horizontal massing; white-washed board form concrete exterior walls; arcades; courtyards; red-clay tile roof; decorative wooden frieze board and roof brackets; second-floor balconies with wrought iron railings; and architectural details, such as stringcourses and impost moldings. Its setting has been altered by the deterioration of the surrounding landscape.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

In 1929, one of the most substantial constructions at the County Poor Farm was the Casa Consuelo Building (officially named in circa 1940), which opened to residents March 11, 1930, to serve as the new Women's Ward. The original 1897 Women's Ward located on the northeast corner of Consuelo Street and Main Drive, was converted to house ambulatory men, and later demolished. Superintendent William R. Harriman's wife, Elinor, was reportedly very involved in the design of the new Women's Ward.[1] According to the Los Amigos Rancho Annual Report of 1928-29, "The new building was planned to house approximately 200 women patients, with one-half of its rooms planned to accommodate two patients. . . . All of these are outside rooms well lighted and ventilated with steam heat and both hot and cold water in every room. There are three courtyards and sun porches on the second floor. Instead of attempting to provide a single large day room for these patients there are six parlor rooms on each floor."

[1] Fliedner, Colleen Adair. "Centennial, Rancho Los Amigos Medical Center, 1888-1988." Rancho Los Amigos Medical Center. Downey, California: 1990. p. 149.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1239* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Toilet Building (LACO No. 1239) is one of several small support buildings located within the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203), which are located centrally within the block bounded by Golondrinas Street to the north, Dahlia Avenue to the east, Consuelo Street to the south, and Erickson Avenue to the west. The Toilet Building is one-story, symmetrical in appearance and square in plan. Of brick vernacular design, the building is capped by a medium-pitched hipped roof with overhanging eaves. The roof is covered by composition shingles. Exposed rafters are visible under the eaves. It sits on a raised concrete foundation. Exterior walls are brick laid in common bond and have been painted. Fenestration on all elevations consists of segmental arched openings with lintels composed of double rows of header bricks containing original, flat-headed, wood-framed, one-over-one, double-hung sash windows. The windows are trimmed by slightly projecting window sills of header bricks. The primary entrance to the building is located on the east-facing façade, with a secondary entrance on the north elevation. Both entrances contain original wood and glazed doors and are accessed by concrete ramps with iron railings. A concrete block hyphen wall is attached to both the north and south elevations of the building. The existing landscaping surrounding the Toilet Building consists of a weeds, and mature grass and shrubs. Concrete paving surrounds the building. Windows have been boarded over. The property is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1930 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

CONTINUATION SHEET

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No permits or original architectural drawings could be found for this building. Other than general deterioration, boarding over of windows, and replacement roofing, no exterior elevations are apparent.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Toilet Building (LACO No. 1239) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1930 as a restroom serving patients using the interior courtyard of the Women's Psychiatric Wards. The patients were taken outside of their rooms for a few hours each day to sit under shade trees in a fenced yard to get fresh air and sunshine. The building is currently abandoned.

Substantially unaltered, the building still reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Intact character-defining features include: brick walls in common bond pattern; corbelled brick courses defining brick belt course that wraps around building at the wall base; segmental arched door openings with double header brick bands; and hipped roof. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Resource Name or #** (Assigned by recorder) *Shelter (LACO NO. 1240)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1240* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Shelter (LACO No. 1240) is a one-story open structure located in the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203). Bar-shaped in plan, the structure consists of a flat roof supported by metal pipe columns. A scalloped fascia board trims the canopy. Exposed beams with tapered ends run lengthwise under the canopy. The shelter is paved with concrete. The immediate setting within the courtyard includes weeds, grass, and concrete walkways. The structure is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1930 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2007

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this structure. There appear to be no alterations.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Shelter (LACO No. 1240) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The structure was erected in 1930 as a covered area within the interior courtyard of the Women's Psychiatric Ward complex. The patients were taken outside of their rooms for a few hours each day to sit under shade trees in a fenced yard to get fresh air and sunshine. The structure continued to be used in that capacity until the complex was converted to office and storage space in the late 20th century. The structure is currently not in use.

Substantially unaltered, the structure reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Intact character-defining features include: utilitarian design and materials; open corridor plan; flat wood roof with exposed beans; metal pole columns; and concrete paving. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1241* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of several small service buildings located in the interior courtyard of the Women's Psychiatric Ward complex (LACO Nos. 1202 and 1203) east of Erickson Avenue and west of Dahlia Street, the Linen Room (LACO No. 1241) is one-story, simple in volume, and square in plan, with an asymmetrical east-facing façade. The brick vernacular building sits on a concrete foundation. Exterior walls are brick laid in common bond and have been painted. The building is capped by a medium-pitched, gable-on-hip roof with overhanging eaves sheathed in composition shingles. Exposed rafters are visible under the eaves. Window openings are located on the east and west elevations, and consist of flat-headed openings trimmed by slightly projecting sills of header bricks. All extant windows are original wood-framed, one-over-one, double-hung sash. The primary entrance to the building is located on the south façade and contains an original wood paneled door. A secondary entrance containing a non-original metal door is on the north (rear) elevation. A concrete block connector wall is attached to the east elevation of the building, and the roof canopy of the Shelter (LACO No. 1240) extends over the building's primary entrance. Existing landscaping surrounding the Linen Room consists of weeds and mature grass. Concrete walkways and sidewalks surround the building. The property is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1932 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

CONTINUATION SHEET

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include the replacement of the north elevation (rear) entrance wood door with a metal door.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Linen Room (LACO No. 1241) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952.The building was erected in 1932 and supported the function of the psychiatric ward complexes, to provide long-term housing and treatment to sufferers from mental illness in Los Angeles County. The building functioned as part of the laundry system until the psychiatric wards were converted to office and storage space in the late twentieth-century. The building is currently abandoned.

Although somewhat unaltered, the building still reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Intact character-defining features include: brick walls in common bond pattern; corbelled brick courses defining brick belt course that wraps around building at the wall base; segmental arched door openings with double header brick bands; and hipped roof. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *July 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *N/A (Omitted from list of Contributors)*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1242* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Toilet Building (LACO No. 1242) is one of several small support buildings located within the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203), which are located centrally within the block bounded by Golondrinas Street to the north, Dahlia Avenue to the east, Consuelo Street to the south, and Erickson Avenue to the west. The Toilet Building is one-story, symmetrical in appearance and square in plan. Of brick vernacular design, the building is capped by a medium-pitched hipped roof with overhanging eaves. The roof is covered by composition shingles. Exposed rafters are visible under the eaves. It sits on a raised concrete foundation. Exterior walls are brick laid in common bond and have been painted. Fenestration on all elevations consists of segmental arched openings with lintels composed of double rows of header bricks containing original, flat-headed, wood-framed, one-over-one, double-hung sash windows. The windows are trimmed by slightly projecting window sills of header bricks. The primary entrance, set within a segmental arched opening, located on the south-facing façade, with a secondary entrance on the west elevation. Both entries contain replacement metal doors. Existing landscaping surrounding the Toilet Building consists of a weeds, and mature grass and shrubs. Concrete sidewalks and walkways surround the building. The property is in deteriorated condition and its windows and doors have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Facade, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1920 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include the replacement of the original wood doors with metal doors.

***B10. Updated Significance:**

This property is identical to, and similarly located as LACO 1239, which determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996 and also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed that Toilet Building (LACO No. 1242) should be considered to be a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history, with a recommended CHR status code of 3D. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1920 as a restroom serving patients using the interior courtyard of the Women's Psychiatric Wards. The patients were taken outside of their rooms for a few hours each day to sit under shaded trees in a fenced yard to get fresh air and sunshine. The building is currently abandoned.

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities. By the late 20th century, the facility was known as the Rancho Los Amigos National Rehabilitation Center.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Most of its character-defining features are intact: brick walls in laid common bond pattern; segmental arched window and door openings with lintels of double header brick bands; slightly projecting window sills of header bricks, and hipped roof. Its setting has been altered through the deterioration of the surrounding landscape.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1243* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Open Shelter (LACO No. 1243) is a one-story open structure located in the courtyard of the Women's Psychiatric Wards (LACO Nos. 1202 and 1203). Rectangular in plan, the structure consists of a flat roof supported by metal pipe columns. A scalloped fascia board trims the canopy. Exposed beams with tapered ends run lengthwise under the canopy. The shelter is paved with concrete. Immediate setting within the courtyard includes weeds, grass, and concrete walkways. A fire has destroyed at least half of the roof. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview Facing Southeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1916 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this structure. The structure suffered a major alteration with the loss of much of the roof due to fire damage.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The survey update concluded that the Open Shelter (LACO No. 1243), constructed in 1916 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205)has lost integrity and can no longer be identified as a significant resource. It is missing 50 percent of one of its two character-defining features, the roof. Due to this extensive fire damage, the structure no longer reflects its period of construction. The structure no longer retains integrity of setting, design, materials, workmanship, and feeling. A revised CHR status code of 6Z is recommended.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1244* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Toilet Room (LACO No. 1244) is one of several small support buildings located within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), which occupy the north half of the block bounded by Golondrinas Street to the north, Dahlia Avenue to the east, Consuelo Street to the south, and Erickson Avenue to the west. The Toilet Building is one-story, symmetrical in appearance and square in plan. Of brick vernacular design, the building is capped by a medium-pitched hipped roof with overhanging eaves. The roof is covered by composition shingles. Rafters are visible in the eaves. The building sits on a concrete slab foundation. Exterior walls are brick laid in common bond and have been painted. Fenestration on the north and south elevations consists of segmental arched openings with lintels composed of double rows of header bricks containing original, flat-headed, wood-framed, one-over-one, double-hung sash windows. The windows are trimmed by slightly projecting window sills of header bricks. Two entrances, accessed by concrete ramps with pipe railings, occupy most of the west façade. Secondary entrances are located on the north and south elevations and are characterized by segmental arched openings with lintels of double header brick bands. The north entrance still retains its original wood paneled door. Replacement metal doors are present on the west façade. Existing landscaping surrounding the Toilet Room consists of a weeds, and mature grass. Concrete paving surrounds the building bands, corbelled brick course defining brick belt course at the wall base, and slightly projecting windows sills of header bricks. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1916 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

CONTINUATION SHEET

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. The only alteration on the building appears to be the replacement of original wood doors with metal doors.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Toilet Room (LACO No. 1244) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1916 as a restroom serving patients using the interior courtyard of the Men's Psychiatric Wards. The patients were taken outside of their rooms for a few hours each day to sit under shade trees in a fenced yard to get fresh air and sunshine. The building is currently abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Intact character-defining features include: brick walls in common bond pattern; corbelled brick courses defining brick belt course that wraps around building at the wall base; segmental arched door openings with double header brick bands; and hipped roof. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage) in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1245* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of several small service buildings located in the interior courtyard of the Men's Psychiatric Ward Complex (LACO Nos. 1204 and 1205), the Linen Room / Snack Bar No. 3 (LACO No. 1245) is one-story, asymmetrical in appearance and rectangular in plan. The brick vernacular building is capped by a medium-pitched, gable-on-hip roof with overhanging eaves, which is covered with rolled composition shingles. Non-original metal air handlers are visible on the south elevation of the roof. The building is sits on a concrete foundation. Exterior walls are brick in laid in common bond and painted. Fenestration on all elevations consists of flat-headed windows trimmed by slightly projecting sills of header brick bands. All extant windows are original wood-framed, one-over-one, double-hung sash. The primary entrance to the building is on the north façade, with a secondary entrance on the south (rear) elevation. Both entrances contain replacement metal doors. An addition attached to the east elevation appears to be an enclosed porch. It is topped by a nearly flat shed roof and clad with board and batten. The existing landscaping surrounding the Linen Room / Snack Bar No. 3 consists of weeds and mature grass. Concrete walkways surround the structure. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of North Façade, Facing South, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1932 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Alterations include the replacement of original wood doors with metal doors, the attachment of an enclosed porch serving as a snack bar, and the attachment of metal air handlers to the roof.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Linen Room / Snack Bar No. 3 (LACO No. 1245) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1932 to support the operations of the Men's Psychiatric Ward complex. At some point, an outdoor snack bar was attached, presumably to support the practice of ensuring that psychiatric patients enjoyed time outdoors on a regular basis. The building served as a linen room and snack bar until the psychiatric wards were converted to office and storage space in the late 20th century. The building is currently abandoned.

Although the building has been altered, its exterior appearance still reflects the period of significance. The building retains integrity of location, feeling, association, design, materials, and workmanship. Intact character-defining features include brick exterior walls laid in common bond; slightly projecting window sills of header bricks; wood-framed double-hung windows; and gable-on-hip roof. Its setting has been altered through the deterioration of the surrounding landscape.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

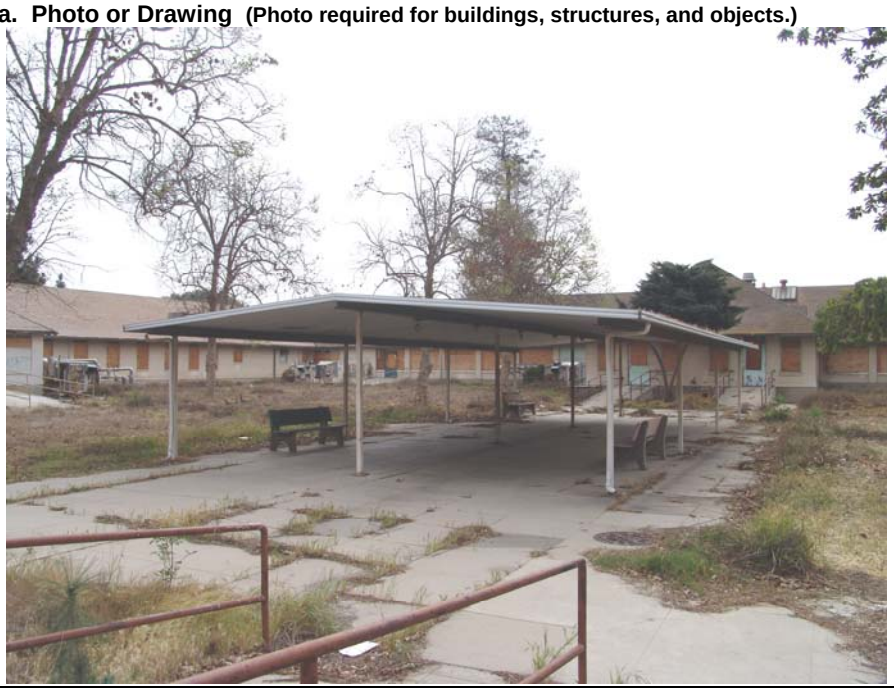
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1246* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Canopy (LACO No. 1246) is located centrally in the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), which are southeast of the intersection of Golondrinas Street and Dahlia Avenue. The Canopy is a one-story open structure, symmetrical in appearance, and rectangular in plan. Three rows of wood posts support a metal-framed canopy roof with an extremely low-pitched gable configuration. Beams with tapered ends are visible underneath the canopy. Concrete paves the space. The immediate setting includes weeds, mature grass, and concrete walkways. The property is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1930 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations to the structure include the replacement of the original wood roof with a metal roof.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Canopy (LACO No. 1246) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The structure was erected in 1930 as a covered area within the interior courtyard of the Men's Psychiatric Ward complex. The patients were taken outside of their rooms for a few hours each day to sit under shade trees in a fenced yard to get fresh air and sunshine. The structure continued to be used in that capacity until the complex was converted to office and storage space in the late twentieth-century. The structure is currently not in use.

The structure retains integrity of design and workmanship. The building retains most of its character-defining features, which include: location in courtyard, metal pipe columns, and open corridor plan. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1247* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Toilet Building (LACO No. 1247) is one of several small support buildings located in the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205), which occupy the north half of the block bounded by Golondrinas Street to the north, Dahlia Avenue to the east, Consuelo Street to the south, and Erickson Avenue to the west. The Toilet Building is one-story, symmetrical in appearance and squared in plan. The building is capped by a medium-pitched gabled roof with overhanging eaves and exposed rafters. Composition shingles cover the roof. . It sits on a raised concrete foundation. Exterior walls are brick laid in common bond and have been painted. Fenestration on the north, east, and south elevations consists of segmental arched window openings with lintels of double header brick bands. All extant windows are original flat-headed, wood-framed, one-over-one, double-hung sash. Slightly projecting window sills of header bricks trim the openings. The primary entrances to the building are located on the north and south elevations, and contain two original wood paneled doors with transoms. Concrete ramps with iron railings provide access. Secondary entrances are also located on the north and south elevations and consist of segmental arched openings with lintels of double header brick bands, and original wood paneled doors with transoms. A wood sided shed addition is attached to the west (rear) elevation. Existing landscaping surrounding the Toilet Building consists of a weeds, and mature grass. Concrete paving surrounds the building. The property is in deteriorated condition with its windows and doors boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1925 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

CONTINUATION SHEET

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. The only alteration to the building is the addition of the wood shed to the west (rear) elevation, and the boarding over of windows and doors.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Toilet Building (LACO No. 1247) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1925 as a restroom serving patients using the interior courtyard of the Women's Psychiatric Wards. The patients were taken outside of their rooms for a few hours each day to sit under shade trees in a fenced yard to get fresh air and sunshine. The building is currently abandoned.

Although somewhat altered by the rear addition, the building still reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Intact character-defining features include: brick walls in common bond pattern; corbelled brick courses defining brick belt course that wraps around building at the wall base; segmental arched door openings with double header brick bands; and hipped roof. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

CONTINUATION SHEET

Primary #
HRI#
Trinomial

Page *1* **of** *1* ***Resource Name or #** (Assigned by recorder) *Pump House (LACO NO. 1249)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *Not addressed*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1249* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

This resource was previously identified as a Toilet Building. However, Los Angeles County records label LACO No. 1249 as a Pump House. As of 2007, no building was present and the site contained an installation of pipes leading underground. Concrete paving in the vicinity may be the remains of a foundation.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *ca. 1916 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2007

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B10. Updated Significance:**

The current study concluded that this resource, which was described in the 2004 survey as a building, is actually an installation of large pipes that run underground within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205) and is not a contributor to the Historic District. A CHR status code of 6Z is recommended.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1251* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Shelter (LACO No. 1251) is located in an open grassy area in the courtyard of the Men's Psychiatric Complex (LACO Nos. 1204 & 1205) south of Golondrinas Street. The Shelter is one-story with a rectangular open corridor plan. The metal-framed structure is capped by a flat metal roof. Metal pipe columns support the roof. A chain link fence has been attached to all elevations of the Shelter. Concrete paves the space. The immediate setting is characterized by weeds, trees, dead grass and concrete walkways. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1916 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this structure.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The survey update concluded that the Shelter (LACO No. 1251), constructed in 1916 within the courtyard of the Men's Psychiatric Wards (LACO Nos. 1204 and 1205)has lost integrity and can no longer be identified as a significant resource. It was apparently partially or completely replaced circa 1960. The structure no longer reflects its period of construction and no longer retains integrity of setting, design, materials, workmanship, and feeling. A revised CHR status code of 6Z is recommended.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1254* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Chapel / Computer Center (LACO No. 1254) is located east of Erickson Avenue and directly southeast of the Women's Psychiatric Ward (LACO No. 1203). L-shaped in plan, the one-story building consists of an original north wing and a post-1955 recessed south wing. The wood-framed building is capped by a medium-pitched, cross-gabled roof. Exposed beams and rafters visible in older photographs of the north wing, which imparted a Craftsman influence, have been removed. The front-gabled north wing is symmetrical in design. Centered on its façade, an attached porch is elevated five steps above ground level and capped by a hipped roof. Square piers support the porch roof. A horizontal louver vent is centered in the gable end above the porch roof. Single windows to either side of the porch were originally round-headed; they appear to have been replaced. Widely spaced single windows define six bays on the north elevation, with a seventh bay containing a secondary entrance. Four bays remain on the south elevation, west of the attached newer wing. The building sits on a concrete slab foundation and is clad in non-original horizontal metal siding. The side-gabled south wing has fewer openings and its south and east elevations are sheathed with stucco. Existing landscaping surrounding the Chapel / Computer Center consists of mature grass, shrubs, and trees. Concrete ramps with metal handrails lead to the building's entrances. A paved parking lot is located to the south and east. The property is in fair condition and its windows and doors have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1907 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include a south wing addition; replacement of the original roof with composition shingles; removal of exposed beams and rafters and substitution of boxed eaves; removal of original window openings on the façade; and replacement of the original wood siding with metal siding. A rose window over the pulpit at the east end of the building and a belfry, described in historic accounts, have also been removed.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Chapel / Computer Center (LACO No. 1254) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1907 and was the first chapel constructed at the County Poor Farm. The building is currently abandoned.

Although the building has been altered, its exterior appearance still recalls its original function. Extant character-defining features include: horizontal massing, medium-pitched gabled roof with overhanging eaves, original wood cladding in situ under later metal siding, attached elevated entry porch with hipped roof and square porch supports, and original wood paneled and glazed doors.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

Prior to 1907, religious services were held in the inmate dining room. The chapel seated 125 people in wooden pews. In 1919, the building was moved south 88 feet from its original location immediately south of the original Psychopathic Ward (the Men's Psychiatric Ward, LACO No. 1205) to accommodate the construction of the new Women's Psychiatric Ward (LACO No. 1203). The building served the religious needs of the institution until 1955, when a new chapel was constructed on Dahlia Street. The 1907 building was converted into a library for several years and the south wing was added. By 1988, the building housed the Building Crafts Planning Division. Sometime in the late 20th century the building was converted into a computer center.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

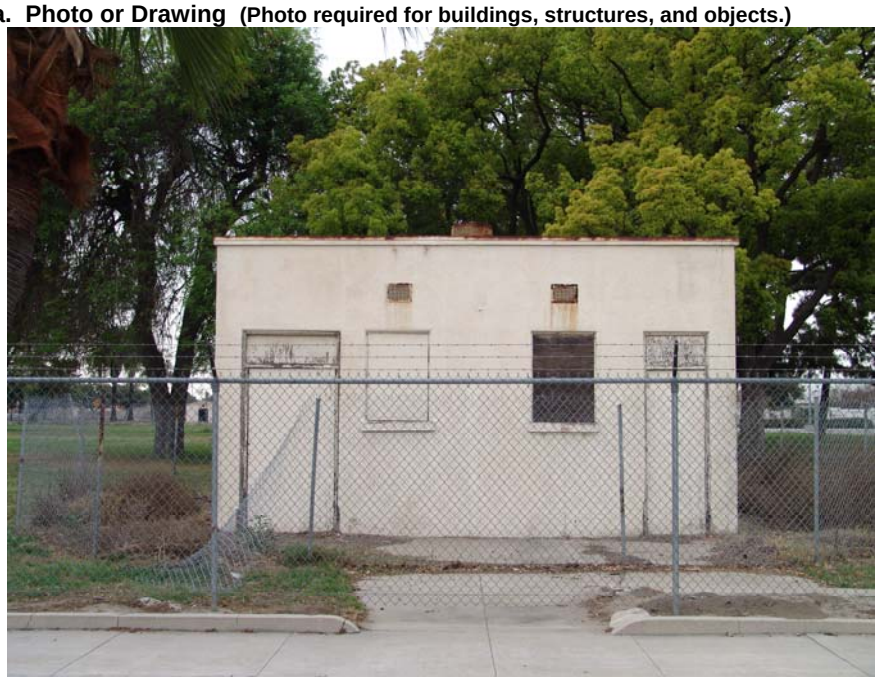
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1256* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Toilet Building (LACO No. 1256) is located directly west of Erickson Avenue, northwest of the intersection of Erickson Avenue and Aliso Street. The Toilet Building is one-story, flat-roofed, symmetrical in appearance and square in plan. The building sits on a concrete foundation, and its exterior walls are concrete covered in stucco. The east façade contains the two primary entrances, which are unevenly sized and located at either end with two windows set between the doors. Transom windows top the doors. The remaining elevations are divided into three bays primarily by the fenestration. Three evenly spaced windows are located on the north and south elevations while a shallow central projection on the west elevation contains a secondary entrance with a wood-paneled door. Fenestration consists of wood-framed four-light pivot windows. Existing landscaping surrounding the Toilet Building consists of mature grass, shrubs and trees. Concrete walkways are located to the east and west of the building. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1925 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. There appear to be no alterations to the exterior of the building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Toilet Building (LACO No. 1256) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1925 as an outdoor restroom facility for the staff and working patients of the County Poor Farm. The building served in this capacity until the late twentieth-century with the institution officially moved their operations to the North Campus area and the farm no longer existed. The building is currently abandoned.

The building's exterior appearance still reflects its period of construction. As an example of a simple utilitarian building, it retains integrity of location, feeling, association, design, materials and workmanship. The building has retained most of its character-defining features: simplicity in design and materials; flat roof; and concrete exterior walls covered in stucco. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1259* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Wheelchair Repair (LACO No. 1259) is located in the block bounded by Descanso Street to the north, Juniper Street to the east, Laurel Street to the west, and Bonita Street to the south. The Wheelchair Repair is one-story, asymmetrical in appearance and rectangular in plan. The vernacular style building is wood-framed and capped by a low-pitched side-gabled roof with slightly overhanging eaves which is sheathed in composition shingles. A horizontal louver vent is located beneath the gable on the west elevation. Board-and-batten siding covers the exterior walls. Fenestration on all elevations consists of a combination of aluminum sash sliding windows and wood sash hopper windows; several window openings have been boarded over with plywood. The primary entrance (south façade) is offset slightly to the east where an iron security door has been added. Two additional entries are located on the north and west elevations and they consist of wood doors. The area surrounding the building is paved with asphalt paving. Character-defining features include: wood-framed structural system; board-and-batten siding; exposed rafter tails; and wood-framed windows. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade, Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1932 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

CONTINUATION SHEET

 ***Resource Name or #** (Assigned by recorder) *Wheelchair Repair (LACO NO. 1259)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. The only alteration appears to be the replacement of the north elevation (rear) entrance wood door with a metal door.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Wheelchair Repair (LACO No. 1259) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1932 as a service building for the wheelchair supply of the Poor Farm. The building served in that capacity until the operations of the institution were relocated to the North Campus area and the building was no longer needed. The building is currently abandoned.

The building's exterior appearance still reflects its period of construction. The building retains integrity of location, feeling, association, design, materials, and workmanship. Its character-defining features include: wood-framed structural system; board-and batten siding; exposed rafter tails; and wood-framed windows. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1260* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Bathhouse and Ward (LACO No. 1260) is located on the south side of Descanso Street between Erickson Avenue and Juniper Street, at the southern terminus of Hawthorne Avenue. Reflecting the influence of the Classical Revival, the Bathhouse and Ward is two stories, regular if not symmetrical in appearance and rectangular in plan. A flat roof caps the building. The roof is hidden by a parapet, which rises from a slightly projecting cornice. The building sits on a concrete slab foundation and its exterior walls are reinforced concrete covered in textured, painted stucco. A blind arcade defines two bays on the east and west elevations and eight bays on the north and south elevations. Fenestration generally consists of two windows in each bay on each level on the north and south elevations. The east façade is distinguished by a covered balcony accessed by a lateral staircase. The corresponding balcony on the west elevation was enclosed by windows at an early date. Window types include original one-over-one, double-hung sash with and without transoms and non-original metal casements. Some window openings have been enclosed and an air conditioning unit installed. Due to the interior spatial divisions of the Bathhouse and Ward, there is no defined primary entrance. Instead, entrances are located on the north and south elevations and are accessed by a raised concrete ramp with metal pipe railings. Original wood doors include (where extant): single veneered, glazed doors with and without transoms and double veneered and glazed doors with and without transoms. Replacement metal doors are located throughout the building. The existing landscaping surrounding the Bathhouse and Ward consists of a grassy setback punctuated by mature trees, shrubs and grass directly east of the building's facade. The property is in deteriorated condition with its doors and windows boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade and South Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1922 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2007* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from original architectural drawings and historic photographs include: the sealing-up of window and door openings; the replacement of wood doors with metal doors; and the replacement of original window screens with wood-framed double-hung windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Bathhouse and Ward 30 (LACO No. 1260) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1922 during a large building initiative in the 1920s under the Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). Constructed as a bathhouse and restroom facility for the male patients at the County Poor Farm, the building was converted to storage for the Los Angeles County Material Management Department in the late 20th century.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. An example of stripped Classicism, the building retains integrity of location, feeling, association, design, materials, and workmanship. Most of its character-defining features are intact, including the vertical division of the exterior walls into two-story, segmental arched bays by plain raised piers and the horizontal division of the exterior into three parts by a simple cornice topped by a parapet and raised wall base. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

Among the first of the buildings to be constructed by Superintendent William R. Harriman in the 1920s was the Bath and Ward for male ambulatory patients. The male patients were required to take at least one bath per week and were issued a bath card, which had to be punched each time a bath was taken. Those who failed to have their card punched had certain privileges revoked. The first floor consisted of 22 bath areas with tubs, a restroom area with eight toilets and three sinks, a barber shop for a full-time barber, and a laundry distributing room or linen room. The second floor contained an additional four wards of 11 beds each for ambulatory male patients, locker rooms, and two additional restrooms with toilets and sinks. A sewing room was added later to mend issued clothing.[1]

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 143.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1261* **NR Status Code:** *3*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Auditorium (LACO No. 1261) faces Erickson Avenue, southwest of the intersection with Descanso Street, and is the visual terminus of Consuelo Street to the east. A deep grassy setback separates the building from Erickson Avenue. Originally a Spanish Colonial Revival design with Art Deco influences, the two-story building is rectangular in plan. The flat roof was originally surmounted by a hipped clay tile roof that extended across the facade (east) with partial returns on the north and south elevations. A plain metal coping marks the roofline currently. The building is constructed of unreinforced masonry with smooth painted stucco exterior walls and a composition roof. It sits on a concrete foundation. The east-facing façade is organized into three equally sized bays. A raised center bay contains the main entrance, consisting of three pairs of slightly recessed non-original doors topped by transoms. Pyramid-capped piers flank the entrance opening. An over-scaled voussoir tops the entrance, with a lintel below it containing the word "AUDITORIUM" in metal letters. The piers and voussoir create a "pinched arch" opening. The ground floor side bays each feature a single window opening with a pair of six-light, steel-framed pivot sash windows set below a wood lintel within a pinched arch opening. Three equally spaced, identical six-light, steel-framed original pivot windows are centered on the second floor above the entry. Wrought iron grilles over these windows, illustrated in historic photographs, have been removed.

(See Continuation Sheet 2 of 2.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West , January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles*.

***P3a. Updated Description (continued from page 1):**

Fenestration on the north, south, and west (rear) elevations is sparse and includes original steel-framed sash windows; some of the openings are also characterized by pinched arches. Secondary entrances open off of each of these elevations, as well. One door on the north elevation also has a pinched arch cap; another, at the top of an attached staircase, contains a pair of original, wood-paneled doors. The staircase is supported by heavy concrete brackets and edged by a wrought-iron railing. The west entry has been enclosed. Concrete ramps circle the building. Mature trees, shrubs and grass complement the façade, while the rear overlooks a paved area. The property is in deteriorated condition and many of its windows and doors are covered with boards.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. By the mid-1950s, the exposed brick walls of the Spanish style building had been whitewashed, according to a photograph taken at the time. Subsequent modifications made in 1972 had the effect of changing the Spanish Colonial Revival appearance of the building to a style influenced by the Art Deco, which was experiencing a new appreciation during the period. Alterations as they appear from original building plans and historic photographs include: painted stucco applied to the building's once exposed brick exterior walls and over the concrete lintels of the first-floor windows and doors; the removal of the tile roof; and the removal of original wrought-iron grilles attached to the three windows on the second-story façade.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Auditorium (LACO No. 1261) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 Superintendent William R. Harriman as an entertainment venue for the patients and staff. It continued to be used for special events even towards the end of the 20th century. It was subsequently converted to storage space.

Although the building's exterior has been altered, the building still overall reflects the District's period of significance. While somewhat compromised by removal of the tile roof and other Spanish Colonial Revival features, the building retains some integrity of design, materials, and workmanship, and substantial integrity of location, feeling, and association. It setting was altered during the period of significance by the removal of the original North and South Wards, which framed it, and the reflecting pool and courtyard, which fronted it. Intact character-defining features include: symmetrical, three-bay façade composition whose slightly projecting central bay has a battered profile; pinched arch over the entry, side doors, and some windows; pyramid-topped piers flanking the entry; and voussoirs that define the entry arch.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

In 1928, Superintendent William R. Harriman constructed an 850-seat Auditorium, to provide a place of recreation and entertainment for the expanding patient population. After years of planning, Harriman selected the site of the old Refectory Building, which was demolished to make way for an Auditorium designed in the Spanish Colonial Revival style. In addition to the Auditorium space, which was used to screen movies and mount programs of music and other entertainments sponsored by various county civic organizations, the building also housed the County Farm branch of the Los Angeles County Library and a small smoking room equipped with games and a radio. It was equipped with a movie projector and sound equipment in 1929 and was in use on a weekly basis for the next 30 years.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1262, 1263* **NR Status Code:** *3*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

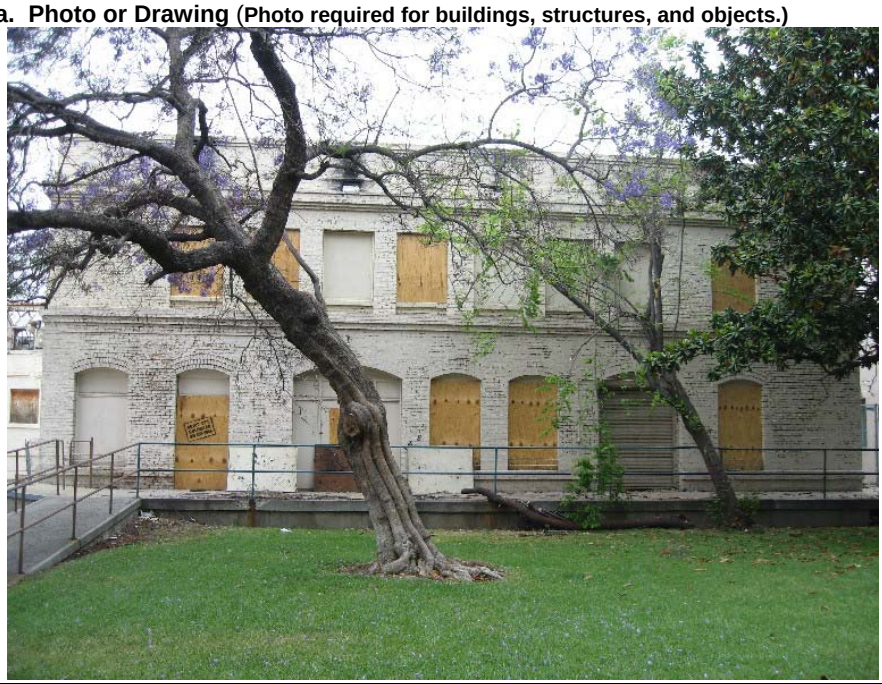
***P3a. Updated Description:**

Comprised of six attached building wings and additions, the Dining Room, Kitchen, Staff Room / Commissary and Receiving Room (Complex) is set back from Erickson Avenue by a grassy area, north and west of the General Wards (LACO Nos. 1184-1188). The rear (west) of the Complex faces Juniper Street. Constructed in stages between 1912 and 1926, the Complex is a large, asymmetrically massed building whose L-shaped floor plan resembles a pistol. The brick vernacular Complex consists of the two-story circa 1912 Commissary and Receiving Building (LACO No. 1263); the two-story 1913 Dining, Game, and Staff Building; the one-story circa 1917 Kitchen Wing; the two-story circa 1920 Dining Room Wing; the two-story 1924 Dining Room Expansion Wing; and the one-story circa 1926 Wing linking the Kitchen Wing to the Commissary Building (the later five wings collectively referred to as LACO No. 1262). A bridge extends east over a walkway and connects the Complex to General Wards 30 and 40 (LACO Nos. 1184 and 1185).

Above a concrete foundation, the exterior walls of the complex are unreinforced brick laid in common bond and currently painted. The flat roof is hidden by a parapet; the roof of the Kitchen Wings is distinguished by a large skylight.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (**Photo required for buildings, structures, and objects.**)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1912-1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***P3a. Updated Description (continued from page 1):**

Corbelled and raised brick courses wrap the building and define the cornice and frieze, separate the first and second stories, and delineate the base of the wall plate. Brick dentils accent the frieze on the Commissary building. The fenestration can generally be described as rows of large, evenly spaced, segmentally arched openings containing wood-framed, one-over-one, double-hung sash windows. Triple courses of header bricks define the arches. Windows are flat-headed; some are topped with transoms. Raised brick sills are provided when the windows do not sit directly on the sbringcourses atop the wall base or separating the levels. Numerous entries, located on nearly all elevations, provide access to the building, including some second story entrances reached via attached metal staircases. A receiving dock is located on the west. Some original wood doors, both single- and double-leaved, are in situ.

Mature trees, shrubs, and a large grassy set-back area provide the setting for the Complex on the northeast and trees, shrubs, grass and a paved parking area are on the west; the other elevations are hemmed in by the General Wards on the east and the Auditorium (LACO No. 1261) on the north. Concrete ramps with pipe railings surround much of the building. The complex is in deteriorated condition and its windows and doors are covered with boards. A fire in 2005 extensively damaged the northeast wing of the building, destroying the roof and the interior of the second story.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Architectural drawings for the 1913 additions and alterations are on file with the County of Los Angeles and were drawn by Hudson and Munsell, Architects, Los Angeles. Alterations as they appear from historic photographs include: fire damage to the second floor and roof of the 1913 Dining, Game, and Staff Building and the removal of some original wood-framed windows and doors.

B9a. Architect: *Hudson and Munsell (1913 additions and alterations)*

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Dining Room, Kitchen, Staff Room / Commissary and Receiving Room Complex (LACO Nos. 1262 & 1263) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected from 1912 to 1926 as the primary dining room and kitchen for the County Poor Farm. By the mid 1920s, growth of the County Farm prompted the construction of "Kitchen #2" (now the Kitchen and Dining Building, LACO No. 1295) to relieve the burden on this earlier facility. The Complex continued to be used for food preparation and dining, as well as for housing and other functions, until Rancho Los Amigos began relocating all medical activities to the North Campus area across East Imperial Highway. The Complex is currently abandoned.

Although the building has suffered minor alterations and fire damage, its exterior appearance still reflects its extended period of construction. The Complex retains substantial integrity of location, setting, design, materials, workmanship, feeling, and association. Extant character-defining features include: brick exterior walls; flat roofs; and architectural detailing such as cornices, frieze, stringcourses, brick dentils, base moldings, and arched window and door openings.

(See Continuation Sheet 3 of 3.)

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B10. Updated Significance:**

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

The Dining Room, Kitchen, Staff Room / Commissary and Receiving Room complex evolved over a period of approximately 14 years in response to the expanding capacity and functions of the County Farm. The earliest portion of the Complex, the Commissary Building (LACO No. 1263), was built circa 1912 and was among the first buildings constructed at the institution during Superintendent Charles C. Manning's tenure. Known as the Old Rancho Store, the building later was used for shipping and receiving. In 1913, the north wing of the Complex (LACO No. 1262) was constructed to house dining, game, and staff rooms (sometime later, the first-floor dining room was converted into a reading room). In the following years, Superintendent William R. Harriman made several additions to the complex, including the addition of a one-story Kitchen Wing (circa 1917) to the southwest corner of the 1913 building and a two-story Dining Room Wing (circa 1920) south of the new Kitchen Wing. In 1924, dining room space was expanded by a two-story addition to the west elevation of the circa 1920 Dining Room Wing (in later years, this building was used as the Print Shop for the campus). The last addition to the Complex occurred circa 1926, when a one-story extension linked the Kitchen Wing to the Commissary Building. At least one of the additions to the complex, the 1913 north wing, was designed by the prominent Los Angeles architectural firm, Hudson and Munsell, according to the original architectural drawings. The kitchen and dining room served both staff and ambulatory patients, and was known as the "dormitory kitchen" because of its proximity to the General Wards. In addition, meals were prepared for patients in the psychiatric wards and delivered by cart. Diet had been emphasized as a critical component of health, recovery, and well-being at the County Farm since its beginnings, and in 1924 a professional dietitian was added to the staff.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1264* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Bonita Hall (LACO No. 1264) is located on the northeast corner of Juniper and Bonita Streets, west of the General Ward buildings. It is one-story in height, originally symmetrical in appearance with a basilica-like rectangular plan. Constructed of brick, the building has been partially stuccoed. A low-pitched, side gable roof with exposed brackets in overhanging eaves tops the building. Spanning most of the south (primary) elevation, a covered loggia, now partially enclosed, is topped by a shed roof attached to the south wall. A corresponding shed roof tops a lower one-story wing that extends the length of the north elevation. Another shed roofed wing is attached to the west elevation. Rolled asphalt and gravel cover the roof, which was originally tiled. Square vents adorned with wrought iron grilles are located in the gable ends. Rows of small, clerestory-level windows are located above the shed roofs and below the eaves on the north and south elevations. Centered on the east elevation, a large, multi-light window features a segmental arch head. A smaller opening, also topped by a segmental arch, is located at the east end of the south elevation. Some original wood casement windows are extant. A window in the east end of the north wing is adorned with a wrought iron grille. Entrances to the building are located along the south and north elevations and generally consist of doors with half glazing. Mexican sautillo tiles pave the loggia area and the walkway leading to it. No original landscaping is extant. The property is in deteriorated condition and its doors and windows have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade and South Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1932 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Alterations as they appear from historic photographs include: removal of the tile roof; enclosure of window and door openings; partial enclosure of the loggia and addition of stucco walls; replacement of wood doors with metal doors; and addition of a metal shed to the northwest corner of the building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Bonita Hall (LACO No. 1264) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1932 to serve as a recreational venue for the County Poor Farm. The building was originally constructed in the Spanish Colonial Revival style, but underwent alterations when it was converted to office space in the 1970s. The building is currently abandoned.

Although the building's exterior has been altered, the building still overall reflects the District's period of significance. While somewhat compromised by removal of the tile roof and modification of the loggia, the building retains some integrity of design, materials, and workmanship, and substantial integrity of location, feeling, and association. Intact character-defining features include: basilica like plan incorporating a loggia; prominent east window defined by segmental arched opening; low-pitched side-gabled roof with moderately overhanging eaves and exposed brackets; and tile pavement. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

One of the few buildings constructed at the County Poor Farm during the Depression Era of the 1930s was Bonita Hall. Harriman had set aside funds for the construction of this recreational building before the 1929 stock market crash.[1] The opening of Bonita Hall in 1932 provided the patients and staff with much-needed entertainment and socialization. Patients could purchase food in the canteen area of the building and enjoy games and live music in the recreation hall. A utility office and the patients' employment office were located on the west end of Bonita Hall. An area to the south of the building provided space for the patients and staff to pitch horseshoes and play croquet.

In later years, Bonita Hall became part of the Receiving Department, and it was renovated substantially in 1975. Period photographs indicate that at this time, the original Spanish red clay tile roof was removed, the east-facing facade was covered in stucco, concrete and stucco was in-filled between some of the south elevation gallery piers to create enclosed spaces, original wooden doors were replaced with metal doors, and metal-framed sliding windows were placed in the infilled sections.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: pp. 178–79.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *July 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1265* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Shelter (LACO No. 1265) is located directly west of the Erickson Avenue traffic circle in an ornamental grassy courtyard area. The Shelter is an 18' by 12' wrought-iron metal canopy designed in a Regency-influenced style. The structure consists of a bellcast, hipped roof with prominent ridges, and flared eaves which is supported by four decorative wrought-iron posts. The posts have starbursts and oval designs. A molded and scalloped cornice wraps the eaves. Set into the concrete pavement, the structure is flanked by sidewalks and lawns. The boughs of the nearby Moreton Bay fig tree shade the area. . The Shelter is in good condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of Shelter, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *Circa 1933 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. There are no alterations.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Shelter (LACO No. 1265) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The structure, which at the time of its construction served a commemorative function associated with the 1933 Long Beach earthquake, was erected in circa 1933.

The structure has suffered no alterations and its exterior appearance still reflects its period of construction. Influenced by the Regency style, the structure retains integrity of location, feeling, association, design, materials, and workmanship. The structure has retained its character-defining features including: low-pitched, bell cast, hipped metal roof with prominent ridges; lacy, wrought-iron construction; four L-shaped corner supports with slender posts and geometric motifs; and molded and scalloped cornice. Its setting has been altered through the deterioration of the surrounding landscape.
History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

The structure was erected in 1933 when the original Administration Building for the County Poor Farm was demolished after the Long Beach earthquake. At this time, an ornamental courtyard was created between the original North and South Wards which extended out to Erickson Avenue. A large 51 foot long fishpond was put in at the same time as this 18 foot by twelve foot wrought iron gazebo. The structure lost its ceremonial significance as a marker of the original Administration Building when the surrounding buildings were abandoned in the late twentieth-century and the ornamental courtyard deteriorated.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1268* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Storage building (LACO No. 1268) is located directly north of Bonita Street, northeast of the intersection of Bonita and Laurel Streets. It is one-story, asymmetrical in appearance and rectangular in plan. The wood-framed building is capped by a low-pitched, side-gabled roof with exposed rafters. Both the roof and exterior walls are sheathed in corrugated metal sheets. The building sits on a concrete slab foundation. Fenestration on all elevations consists primarily of an irregular arrangement of wood-framed, one-over-one, double-hung sash windows, with plain wood casings. Wooden Dutch doors are located on the north elevation; double metal doors are located on the west and east elevations. The area surrounding the building is paved in asphalt. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Elevation, Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1932 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2007

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos History District Update Report, Prepared for the County of Los Angeles.*

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include the removal of original windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Storage (LACO No. 1268) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1932 as a storage and service building for the County Poor Farm. It served in this capacity until the late 20th century when the operations of the institution relocated to the North Campus area. The building is currently abandoned.

The building's exterior appearance still reflects the District's period of significance. As an example of a simple utilitarian building, it retains integrity of location, feeling, association, design, materials and workmanship. The building has retained most of its character-defining features that reflect simplicity of design and materials and lack of ornamentation, use of corrugated metal, and wood-framed structure. Its setting has been altered through the deterioration of the surrounding landscape.
History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

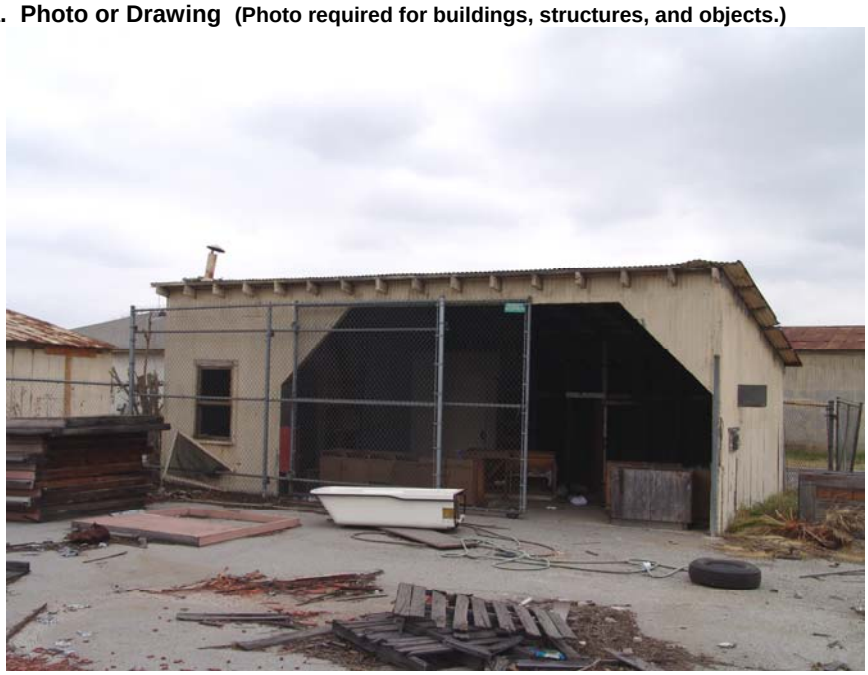
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1270* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage (LACO No. 1270) is located northeast of the intersection of Laurel and Bonita Streets. The Garage is one-story, asymmetrical in appearance and rectangular in plan. The wood framed building is capped by a shed roof with exposed rafters. The building sits on a concrete foundation. Both the roof and exterior walls consist of corrugated metal sheets. Fenestration is limited to one wood sash double-hung window on the north elevation and a wood sash casement window on the south elevation. The primary entrance is offset to the west and is a large opening that extends the height of the building and occupies about three quarters of the elevation. The area north of the building is paved with asphalt. A tall chain link fence with a sliding gate is located immediately in front of the north façade. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of North Façade, Facing South, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1932 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report. Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. The only alteration to the building is the removal of original windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Garage (LACO No. 1270) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1932 as a storage area for the large vehicles servicing the County Poor Farm. The building continued to be used as a general storage and service building until it was abandoned in the late twentieth-century.

The building's exterior appearance still reflects its period of construction. As an example of a simple utilitarian building, it retains integrity of location, feeling, association, design, materials and workmanship. The building has retained most of its character-defining features: a large, open bay on north façade; shed roof of corrugated metal; and corrugated metal siding. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1272* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Shed (LACO No. 1272) was originally located directly east of Laurel Street, south of Descanso Street and north of Bonita Street, in the area initially designated for farming buildings. The building was demolished sometime in the late 20th century. Concrete slab foundation and paving is all that remains of this building.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1930 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Resource Name or #** (Assigned by recorder) *Shed (LACO NO. 1272)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos south Campus Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources (CRHR) (under Criterion 1). The current study confirmed the demolition of Shed (LACO NO. 1272) and its loss of significance and integrity. Therefore, the building is no longer a contributor to the Historic District under Criterion 1.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1275* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Workshop (LACO No. 1275) is occupies the northwest corner of the intersection of Juniper and Bonita Streets. A long, narrow building, it extends north along the west side of Juniper Street two-thirds of the block. The one-story, brick vernacular Workshop is capped by a flat roof screened by stepped brick parapet with coping of header bricks. The building sits on concrete slab foundation and has common bond brick exterior walls. Linear fenestration of original wood-framed, primarily four-over-four, double-hung windows, recessed with slightly projecting sills of header bricks and heavy, flushed, concrete lintels, line all four elevations. Metal awnings are located above the two windows on the east elevation. The façade (east) has several storefront-like entrances containing wood paneled and glazed doors topped by transoms. Each of the three storefronts on the south end of the east façade is flanked by a pair of wood-framed, four-over-four, double-hung sash windows. A shed-roofed leanto is attached to the north elevation. Alterations include a flat-roofed, stucco-clad addition and a corrugated metal canopy at the north end of the west elevation and the enclosure of some openings on the east. Metal awnings have been added to the pair of windows that occupy the south elevation. The building is bordered by sidewalk on the east, shrubbery on the south and asphalt paving on the north and west. The Garage (LACO No. 1277) is attached to the south end of the west elevation. The property is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1917according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations to this building include additions on the west elevation and the replacement or enclosure of some original wood doors and windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Workshop (LACO No. 1275) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1917 to serve as a work service building for the farm and construction programs of the County Poor Farm and functioned in this capacity until the late 20th century. The building is currently abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. It retains integrity of location, setting, design, materials, workmanship, feeling, and association. The building has retained most of its character-defining features, including: flat roof screened by stepped parapet with coping of header bricks; brick exterior walls; corbelled brick cornice which separates the parapet from the wall plate; repetitive "storefront" composition of central entries flanked by paired windows in south three bays of east elevation; double-hung windows recessed with slightly projecting sills of header bricks and heavy, flush concrete lintels; and original wood-paneled and glazed doors with transoms.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

The Workshop, dating to 1917, played an important role in the self-sufficiency that characterized the County Poor Farm. A 1917 plot plan simply labels the building "General Utility." It first appears on Sanborn maps of the institution in 1924, when individual rooms were labeled, south to north: Carpenter, Paints, Repair Shop, Storage, Painting, Storage, Cobbler, Storage, and Furnishing.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1276* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Lock Shop (LACO No. 1276) is located directly southwest of the intersection of Descanso and Juniper Streets. The Lock Shop is one-story, symmetrical is appearance, and rectangular in plan. The brick vernacular building is capped by a flat roof screened by a brick parapet with raised coping. The building sits on a concrete foundation and its exterior walls are brick laid in common bond. A stucco-clad addition was made to the west (rear) elevation of the original building. All windows have been boarded over except for those on the façade which consist of three-light fixed sash. The windows have slightly projecting window sills of header bricks and heavy, flush, concrete lintels. The primary entrance is located centrally on the façade and is topped by a transom window. Both the door and window have been boarded over. Secondary entrances are found on the western section of the south and north elevations and they consist of wood doors; the door on the north elevation is glazed and has been boarded over. The area immediately surrounding the Lock Shop is paved in asphalt. Character-defining features include: flat roof screened by brick parapet with raised coping; brick exterior walls in common bond pattern; corbelled brick cornice which separates parapet from wall plate; and slightly projecting window sills of header bricks. The property is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1913 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations as they appear from historic photographs include the rear stucco addition.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Lock Shop (LACO No. 1276) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1913 as a gas station. Underground gas tanks were located to the north of the building. The rear room served as paint and fuel oil storage. The rear room was also used to store pipe fittings, and eventually was converted into a lock shop. In later years, the lock shop was replaced by master mechanic offices. The building is currently abandoned.

The building's exterior appearance still reflects its period of construction. As an example of a simple utilitarian building, it retains integrity of location, feeling, association, design, materials and workmanship. The building has retained most of its character-defining features: flat roof screened by brick parapet with raised coping; brick exterior walls in common bond pattern; corbelled brick cornice which separates the parapet from the wall plate; and slightly projecting window sills of header bricks. Its setting has been altered through deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

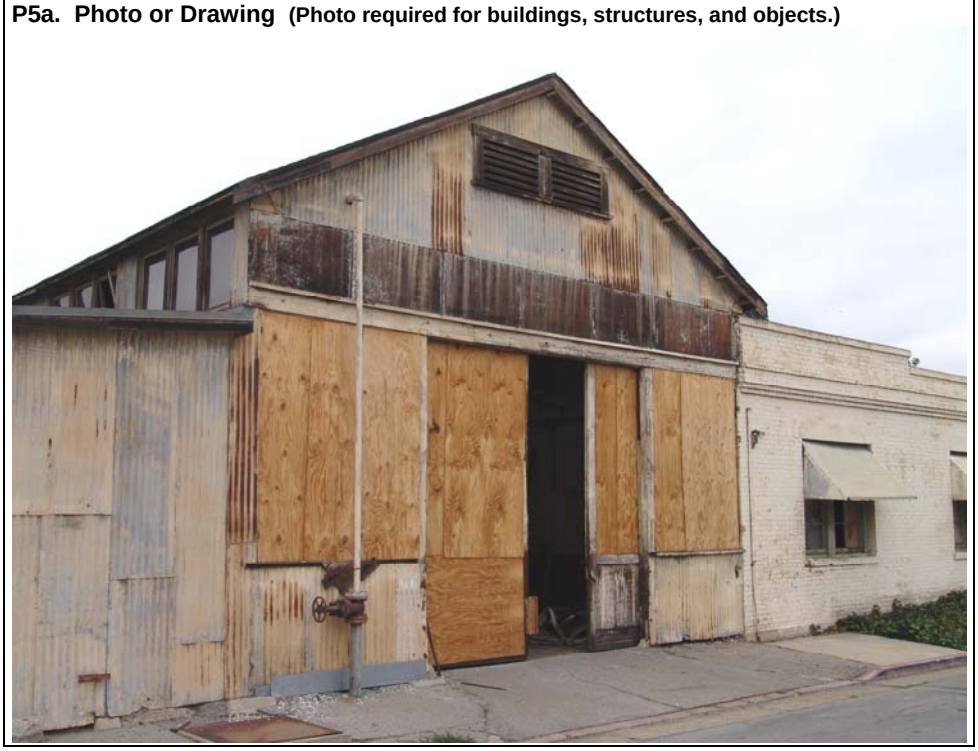
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1270* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage (LACO No. 1277) is located on the north side of Bonita Street, immediately west of and attached to the south end of the Workshop (LACO No. 1275). One-story and rectangular in plan, the building consists of a symmetrical, front-gabled, main section on the east and a shed-roofed, leanto attached to west elevation. Of utilitarian design, the wood-framed building is clad in corrugated metal sheets. Composite shingles cover the roof. Vents composed of horizontal louvers are located in the gable ends. The building sits on a concrete slab foundation. Both the façade (south) and north elevation are nearly completely glazed, with a continuous band of multi-light windows flanking a central entry containing a pair of similarly fenestrated sliding doors. The openings on the façade have been boarded over. A row of square, awning windows are located clerestory level on the west elevation of the main section of the building. The west wing is an irregular assemblage of spaces, some of which have windows, while others are storage areas enclosed by hinged doors. This wing appears to be constructed of recycled materials. A cement driveway provides access to the building on the south and paved areas are located on the west and north. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade, Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1925 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2007

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations to this building are the addition of boards over windows and doors and possibly portions of the west wing.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Garage (LACO No. 1277) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1925 as a carpenter's shop and office. The building served as tool and materials storage, as well as dressing rooms and toilets for the workers. The building continued to function as a service building until the late 20th century when it was abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. It retains integrity of location, setting, design, materials, workmanship, feeling, and association. Its character-defining features include: wood-framed structural system; corrugated metal siding; front-gabled roof; extensive glazing on the north and south elevations incorporating multi-light windows and sliding vehicle doors; and lack of ornamentation.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

P5a. Photo: *North elevation, facing south, Facing North, January 29, 2007*



***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1278* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage and Storage building (LACO No. 1278) is located in the block bounded by Descanso Street to the north, Juniper Street to the east, Laurel Street to the west, and Bonita Street to the south. It is one-story with a two-story wing at the south end, asymmetrical in appearance and rectangular in plan. The wood-framed, utilitarian building is capped by a moderately-pitched cross-gabled roof with overhanging eaves and exposed rafters. The roof is covered by a combination of rolled asphalt sheets and corrugated metal sheets. The building sits directly on concrete pavement and its exterior walls are clad in corrugated metal sheets. Large doors made of corrugated metal line the west and east elevation. West elevation doors have glazing. The two-story wing has a large corrugated metal sliding door. The Garage and Storage is surrounded by asphalt paving. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing Northeast, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1924 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations as they appear from historic photographs indicate that the two-story central portion of the building was added at a later undetermined time.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Garage and Storage (LACO No. 1278) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1924 to serve as a storage area for several of the County Farm workshops. A second-story was added to the central portion of the building to accommodate taller vehicles and trucks at a later time. The building continued to serve as a service and storage bulling for the operations of the County Poor Farm until it was abandoned in the late 20th century.

Although the building has been somewhat altered, its exterior appearance still reflects the District's period of significance. The building retains integrity of location, feeling, association, design, materials, and workmanship. Its character-defining features Include: metal corrugated roof; wood-framed; exterior walls of corrugated metal siding; and minimal ornamentation. The setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Resource Name or #** (Assigned by recorder) *Garage (LACO NO. 1279)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1279* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage (LACO No. 1279) is located centrally in the block bounded by Laurel Street to the west, Descanso Street to the north, Juniper Street to the east, and Bonita Street to the south. The Garage is one-story, asymmetrical in appearance and rectangular in plan. The wood-framed building is capped by a low-pitched front gabled roof with shallow eaves and exposed rafters, covered in corrugated metal sheets. The building is sited directly on concrete paving and its exterior walls are clad in plywood. One window is located on the west façade and it consists of a vinyl sash single hung window with wood surrounds. The primary entrance is located off center towards the north and contains a non-original metal door. An east elevation second entry consists of a set of double doors (east door is original wood door and west door is a replacement metal door) located centrally on the elevation. Concrete pavement surrounds the building. The property is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1925 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The survey update concluded that the Garage (LACO No. 1279), determined eligible for the NRHP in 1996 and listed in the CRHR as a District contributor, has lost integrity and can no longer be identified as a significant resource. The building was erected in 1925 to serve as a paint spray booth and storage area for the County Poor Farm. The building continued to serve as a service building for the operations of the institution until it was abandoned in the late twentieth century.

Due to many alterations over the years, including the loss of its original window and door on the primary (west) elevation, the building's exterior appearance no longer reflects its period of construction. A revised CHR status code of 6Z is recommended.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1280* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage Storage building (LACO No. 1280) is located within the block bounded by Descanso Street to the north, Laurel Street to the west, Juniper Street to the east, and Bonita Street to the south. It is one-story, asymmetrical in appearance and rectangular in plan. The wood-framed utilitarian building is capped by a low-pitched side-gabled roof covered in rolled composition sheets with overhanging eaves and exposed rafters. The building sits directly on concrete pavement and its exterior walls consist of corrugated metal sheets. A series of large double doors made of corrugated metal are located along the east, west, and south elevations. The building is surrounded by asphalt paving. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1928 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. There are no alterations to the building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Garage Storage building (LACO No. 1280) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1928 to serve as a service and storage area for the general operations of the County Poor Farm. For many years the building housed small equipment and supplies. The building was abandoned in the late twentieth-century when the operations of South Campus were officially closed.

The exterior appearance of this building still reflects the District's period of significance. Character-defining features include side-gabled roof, corrugated metal sheet siding, and bands of doors faced with corrugated metal on the east, west, and south elevations.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

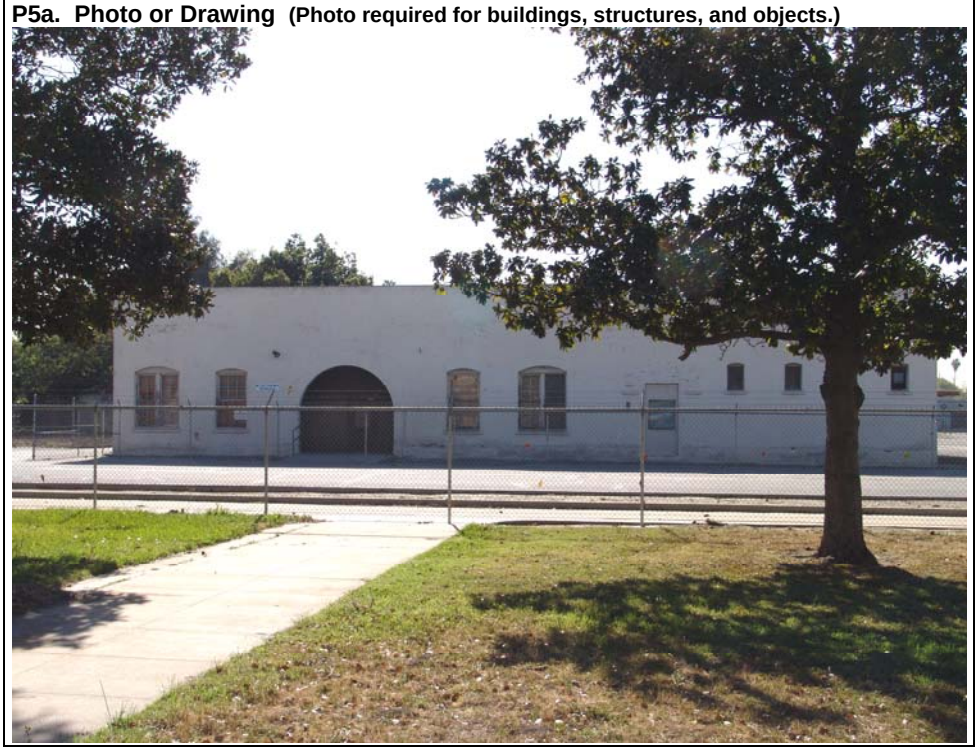
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1283* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Trunk Storage building (LACO No. 1283) is located on the east side of Erickson Avenue, opposite General Ward 70 (LACO No. 1188). The building is one-story, asymmetrical in appearance, with an L-shaped plan. The brick vernacular building is capped by a flat roof with a parapet that is flush with the exterior walls. The building sits on a concrete slab foundation and its exterior walls are brick laid in common bond and painted. The northern two-thirds of the façade (west) consists of five bays and is symmetrically arranged. A large, semi-circular archway in the center bay is flanked by single windows in the penultimate bays and double windows in the end bays. Five rows of header bricks outline the arch. Deeply recessed within a vestibule behind the arch, the primary entry is a wide, wood door with glazing. Other entrances, which contain metal roll-up doors set within segmental arched openings, are located on the south and east elevations. Fenestration on all elevations consists primarily of a linear arrangement of multi-light, flat-headed windows (six-over-six and four-over-four) located within segmental arched window openings. A flat-roofed metal-sided room addition is attached to the east elevation and a flat-roofed metal canopy projects from the south elevation. The building is mostly surrounded by asphalt, with a remnant of a garden bed on the north. It is in fair condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of the West Façade, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1923 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations as they appear from historic photographs include the removal of a second-story after the 1933 Long Beach earthquake.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Trunk Storage building (LACO No. 1283) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. Originally two stories in height, the building was erected in 1923 as a horse stable and hay barn. After an outbreak of hoof and mouth disease in 1924 decimated the livestock at the County Farm, the building was re-purposed for storage of patient belongings (or trunks) on the first floor and a male patient ward on the second floor. After the 1933 Long Beach earthquake extensively damaged the upper story, it was removed. Other uses of the building included a barber shop, and a room for scale house records located off the main entrance. In 1984, the building was converted to offices for medical equipment repairs and some workshop space. The building was abandoned by the end of the 20th century.

Although the building has been somewhat altered, its exterior appearance today still reflects its appearance after 1933 and still conveys its original function as a horse barn. The building retains integrity of location, design, materials, workmanship, feeling, and association. Extant character-defining features include: brick exterior walls laid in common bond; segmental arched window and door openings; use of multiple rows of header bricks to define arched openings; slightly projecting window sills of header bricks; broad arched entries clearly intended to accommodate horses; fenestration pattern that suggests former stable divisions; and original windows. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Resource Name or #** (Assigned by recorder) *Garage / Storage (LACO No. 1286)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1286* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage / Storage building (LACO No. 1286) is located in an open area directly south of Bonita Street and east of Erickson Avenue. It is one-story, asymmetrical in appearance and L-shaped in plan. The wood-framed, utilitarian building is capped by a low-pitched, cross-gabled roof covered in rolled asphalt sheets, with rafters exposed in overhanging eaves. The building sits on a concrete slab foundation and is clad in a combination of board-and batten, horizontal wood siding and corrugated, metal siding. Fenestration on all elevations consists of a linear arrangement of variously sized aluminum sash sliding windows and wood sash, two-over-two casement windows with wide wood surrounds. Vehicular garage doors are located on the west elevation and on the west and north elevations of the projecting wing. A chain-link fence is located along the east elevation of the garage and an asphalt parking lot extends out along the west elevation. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1920 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this building. Alterations include replacement roofing material and plywood sheeting on exterior walls.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Garage / Storage building (LACO No. 1286) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1920 as a service building for dairy operations of the County Farm. The building originally housed a blacksmith shop in its central portion, and the north portion was used as a bus garage. For many years the southeast section was used by pest control operations, and a lawnmower repair shop was also located in the building. The building continued to be used as a service building for the County Farm until farming operations ceased by the end of the 1950s. The building was subsequently used for various storage and service uses. The building is currently abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects the District's period of significance. The building has retained most of its character-defining features: wood-framed structural system; board-and-batten siding; and minimal ornamentation.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1287* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Oil and Storage building (LACO No. 1287) is located in the block bounded by Bonita Street to the north, Erickson Avenue to the west, and Gardendale Street to the south. Resembling a farmhouse in appearance, it is two stories, asymmetrical in appearance and rectangular in plan. The wood-framed vernacular building sits on a brick foundation and is clad in horizontal lapped wood siding. A steeply-pitched, front-gabled roof with overhanging eaves and exposed rafters hidden by a molded fascia caps the building. The façade contains a large entrance offset to the east, a single, one-over-one double-hung sash window on the west, and an identical double-hung sash centered in the upper story gable end. Three similar windows, unevenly spaced, are located on each level of the side elevations; the lower story windows are taller than those on the upper story. Plain wood casings with slightly projecting sills frame the openings. Concrete steps and a landing bordered by iron pipe railings provide access to the front entrance. A small shed for the water heater has been attached to the south elevation. Asphalt paving surrounds the building. The property is in deteriorated condition and its windows and doors have been boarded over.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of North Façade, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1909 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations and alteration dates as they appear from historic photographs include the replacement of roofing material and the boarding-up of windows.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Oil and Storage Building (LACO No. 1287) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1909 as a support building for the County Farm dairy operations. After the outbreak of hoof and mouth disease in 1924, the building was used by the pest control operations. For a time in the 1950s and 1960s the upstairs was used by the Downey Radio Club a few evenings a month. The building continued to be used as the headquarters for the pest control operations until 1979 when the supervisor retired. After that time, the building was used for general storage and service needs until it was abandoned in the late twentieth-century.

Although the building has experienced minor alterations, its exterior appearance still reflects its period of construction. It retains integrity of location, design, materials, workmanship, feeling, and association. Its character-defining features include: steeply pitched, front-gabled roof with overhanging eaves; wood-framed structural system; narrow clapboard siding; fenestration of original, wood-framed, one-over-one double-hung sash windows; and wide window and door casings with slightly projecting wooden sills. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1295* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004 .

***P3a. Updated Description:**

The Kitchen and Dining Room (LACO NO. 1295) is located in the western section of the block bounded by Flores Street to the north, Hawthorne Avenue to the east, Esperanza Street to the south, and Laurel Street to the west. The one-story building has a central roof projection, and is asymmetrical in appearance and irregular in plan. Of reinforced concrete construction, the building displays the influence of classical revival styling. A flat, steel truss roof of composition material is shielded from view by concrete parapet walls. A central, one-story projection over the kitchen is surmounted by a flat roof covered in composition panels with a slight slope on its north and south elevations below the ridgeline, and projecting parapets on its east and west elevations.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *North Elevation, Facing Southwest, January 29, 2008*

***P6. Date Constructed/Age and Sources:** *1927 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date Recorded:**
June 2, 2007

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

The building sits on a concrete foundation and the exterior walls are clad in stucco. A raised concrete Tuscan-style cornice wraps the building below the roof parapet and above a concrete plain frieze and architrave. Small rectangular screened vents punctuate the frieze of the building. Concrete stringcourses band the building above the windows. Fenestration on all elevations consists primarily of a linear arrangement of original wood-framed three-over-three double-hung sash windows with transoms and slightly projecting sills. Additional windows include: three-light hopper windows; three-over-three double-hung sash windows without transoms; and large, steel sash three-over-three pivot windows. Non-original metal sliding windows are located on the north elevation. The primary east façade entrance and secondary north elevation entrance are characterized by partial-width porches sheltered by projecting flat concrete hoods suspended by steel cables. Paired glazed and paneled one-over-one wood-paneled doors topped by two, two-light transoms are recessed within the entries. The entrances are accessed by concrete steps with ramps and metal pipe handrails. A loading dock and metal roll-up loading doors are located on the west elevation, and non-original metal sheds on a raised concrete deck are located on the south elevation. Existing landscaping surrounding the Kitchen and Dining Room consists of mature trees, shrubs and grass. A concrete parking lot lies to the east and another parking lot to the west. Concrete sidewalks and ramps surround the building. The property is in fair condition.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits were found for this building. Alterations as they appear from historic architectural drawings and photographs include: the replacement of original double-hung windows with metal sliding windows on the north elevation, and the addition of a metal shed to both the building's west and south elevations.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Kitchen and Dining Building (LACO No. 1295)as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1927 during a large building initiative in the 1920s under the Los Angeles County Poor Farm's most influential superintendent, William Ruddy Harriman (1915-1931; 1933-1952). The building was constructed as a secondary kitchen and dining hall to support the additional staff hired to work in the patient ward buildings, which were built nearby during the same time period. The Kitchen and Dining Building also supported the dining needs of a large grouping of staff residential buildings, which included staff cottages, small bungalows, and dormitory buildings. All of these residences except for two staff cottages were demolished in the early 1990s when Flores Street was constructed.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction and retains integrity of location, feeling, association, design, materials, and workmanship. Most of its character-defining features are intact: regular fenestration, flat roof; and spare classical detailing including cornices, frieze, stringcourses, and base moldings. Its setting has been altered by the loss of the residential buildings that the building provided support for and the overall deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District. Still in use, the Kitchen and Dining Building is one of the few exceptions to the abandonment of the South Campus of Rancho Los Amigos.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**

The construction of the Kitchen and Employee Dining Room was a result of Superintendent William R. Harriman's effort to improve the dietetics program of the expanding County Poor Farm. He was aware of the growing popularity of the science of dietetics in the 1920s and saw the value of proper nutrition planning for the patients. In 1923, Harriman hired the farm's first dietitian, Otto Jardon, to oversee the kitchen and dietary needs of the campus patients.[1] Otto supervised the second kitchen constructed for the campus located in the Dining Room/Staff Rooms/Kitchen/Commissary Complex (LACO Nos. 1262 and 1263), which served the substantial needs of the General Ward Buildings (LACO Nos. 1184–1188), as well as the rest of the campus. The first campus kitchen and dining room had been located in the Rectory Building, which was demolished in 1927 for the construction of the Auditorium.

After the opening and expansion of the Infirmary Wards in 1926, the number of campus employees had increased to over 500, creating a need for additional kitchen and dining space. In 1927, plans were drawn for a new Kitchen and Employee Dining Building (originally called Kitchen No. 2 or the Service Building) to be located close to the Infirmary Wards for easy access by the employees. The building was designed to have two kitchens and six dining areas, which included a dining area for campus guests and one for the cooks. Harriman wrote the following description of the building in 1934 in the publication The Story of the Rancho: The new Service Building provides one of the finest kitchens in the state—spacious, light and airy under all conditions. Even on the hottest summer day this buildings is cool and comfortable to work in because of a row of 6-foot steel sash around three sides of the top of the wall. This sash may be swung to any position by chain controls from the kitchen floor. Electrically operated meat slicers and mixing equipment, automatic toasters, and other economy and labor saving devices are in constant use.[2] Over the years, the building has been altered to meet the needs of the campus. The Kitchen and Employee Dining Room was one of the few buildings to continue to be used for its original purpose well after the rest of the buildings on South Campus had been closed.

[1] Fliedner, Colleen Adair. 1990. *Centennial, Rancho Los Amigos Medical Center, 1888–1988*. Rancho Los Amigos Medical Center. Downey, California: p. 145.

[2] Harriman, William R. 1934. *The Story of Rancho*. Los Angles: University of Southern California Archives, Box 22, Folder 13.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1300 and 1302* **NR Status Code:** *3*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

An assemblage of three connected buildings, the Historic Power Plant (LACO Nos. 1300 & 1302) is located on the northwest corner of Erickson Avenue and Descanso Street. The building is composed of three cubic volumes (1909 Shop, Laundry, Ice Plant, the 1911 Addition, and 1925 Power Plant), which loosely define an L-shaped plan. The 1909 Shop, Laundry, Ice Plant and 1911 Addition, both one-story in height and designed in the Brick Vernacular style, comprise the longer, western leg of the "L." The 1925 Power Plant building, the equivalent of two-stories in height and designed in the Classical Revival style, forms the shorter leg. All three buildings are constructed of brick, which is currently painted. A freestanding concrete chimney, constructed in association with the 1925 Power Plant, is located within the courtyard formed by the L. Rising 140 feet, the chimney tapers toward the top and is finished with vertical fluting. Also in the courtyard, a steel water tower (LACO No. 1301) is documented on separate inventory form.

Flat roofs hidden by parapets top the 1909 and 1911 buildings. Steel-framed skylights illuminate the interior of each space. A circa 1933 wooden water cooling tower sits on the roof of the 1909 Shop, Laundry, Ice Plant.

(See Continuation Sheet 2 of 3.)

P5a. Photo or Drawing (**Photo required for buildings, structures, and objects.**)



P5b. Description of Photo: (**View, date, accession #**) *East and North Elevations, Facing Southwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1909 Shop, Laundry, Ice Plant, 1911 Addition, 1925 Power Plant, according to historic aerial photographs, and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***P3a. Updated Description (continued):**

Both the parapets and a frieze are defined by raised and corbelled brick courses. Fenestration on these two buildings consists primarily of single and paired, wood- framed, six-over-six double hung sash windows. Flat-headed, the windows are set into segmental arched openings, with lintels defined by three rows of header bricks and sills by single rows of raised bricks. Original entries located on the south elevation also have segmented arched heads and contain single and double wood doors topped by transoms. A flat-headed metal rollup door on the south elevation of the 1909 wing does not appear to be original. The secondary north elevation of these two buildings are spanned by an attached canopy that shades a band of windows. On the northwest corner, a non-original steel shed has been attached to the complex.

Symmetry characterizes the Classical Revival design of the 1925 Power Plant, with nearly identical three-bay facades facing north and south and thirteen bays spanning the east (Erickson Avenue) elevation. Wrapped by a continuous parapet, the flat roof is bisected by a monitor roof wrapped in a continuous band of steel-framed multi-light windows. Stepped parapets terminate the north and south ends of the monitor. Beneath the parapets, a projecting and tops a molded frieze. The central three bays of the east elevation are given a temple-front treatment, with four raised pilasters carrying a pediment whose tympanum is incised with the year of construction, 1925. Double-door entries are located in the central bays on the east, north and south elevations. The remaining bays are occupied by large, flat-headed, multi-light industrial sash windows. The west elevation is partially adjoined by the 1909 Shop, Laundry, Ice Plant; openings on this elevation are limited to four large, steel-framed multi-light windows that appear at the northern end of the wing, an additional window set high-up at the south end of the wing, and two double doors onto the courtyard.

Vestiges of landscaping remain along the east elevation and include strategically placed palm trees. The other street elevations are set directly on the sidewalk, with no planting areas. Weeds and bushes, by design or by accident, are located near the base of the water tower in the paved courtyard. The property is in deteriorated condition.

B6. Updated Construction History: (Construction date, alterations, and date of alterations)

No building permits were found for this building. Only the architectural drawings for the 1925 Power Plant building were located. Alterations and alteration dates as they can be derived from examination of historic photographs and architectural drawings include: the removal or breakage of original windows; the replacement of original wood doors with metal doors; the addition of a metal clad enclosure on the northwest corner of the 1911 Addition; and the addition of an awning attached to the north elevation (rear) of the 1909 Shop, Laundry, Ice Plant.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of Historic Power Plant (LACO Nos. 1300 and 1302) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The buildings were erected from 1909 to 1925 to provide power for the medical and agricultural activities of the Los Angeles County Poor Farm. The original 1909 Shop, Laundry, Ice Plant was an extension of the City of Downey Power Plant and was constructed and opened at the same time. The evolution and expansion of the facility are indicative of the growth of the Los Angeles County Poor Farm over time and its increased need for more self-sustaining power.

Exterior alterations to the buildings are relatively minor. An interpretation of the Brick Vernacular and Classical Revival Styles, the Historic Power Plant retains integrity of location, feeling, association, design, materials, and workmanship. Most of its character-defining features are intact, including: brick construction and architectural trim; flat roofs with encircling parapets; segmental arched openings; Classical Revival treatment of the north, south, and east elevations of the 1925 building; rooftop features including skylights, cooling tower, and monitor; original double-hung and industrial sash windows; original wood doors and transoms (where extant); and freestanding chimney.

(See Continuation Sheet 3 of 3.)

***B10. Updated Significance (continued):**.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

Several buildings on the South Campus as it exists today date back to the first decade of the 20th century. The first portion of the Power Plant Complex, built in 1909, was among the numerous buildings constructed during that period. A one-story brick building displaying the utilitarian vernacular typical of commercial and industrial architecture of the time, the original powerhouse comprises the east wing of LACO No. 1300. Two years later, in 1911, a one-story addition in the same brick vernacular style was constructed west of the original powerhouse; this is the west wing of LACO No. 1302. The addition housed the campus laundry. A freestanding Water Tower (LACO No. 1301) was erected north of the building in 1913; the tower and tank of are of steel construction and have a capacity of 100,000 gallons.

The County Poor Farm continued to expand, with new buildings that marked a shift in its mission from poor farm to hospital, during the 1910s and 1920s. By 1925, additional power generation capabilities were needed, and a new, larger power plant was built to accommodate expected growth over the next quarter century. Two-stories in height, with monumental Classical Revival detailing, the new building was attached to the east end of the 1909 Original Building, which then was converted into an ice house and machine shop. The freestanding Chimney, located next to the Water Tower, was built concurrently with the new power plant. Sometime between 1933 and 1936, a large wooden Water Cooling Tower was built on the roof of the ice house. In 1966, the steam transfer building (LACO No. 5548) was constructed north of the Complex, which, as in most buildings on the South Campus by that time, was relegated to a secondary role of support facility and storage.

***Resource Name or #** (Assigned by recorder) *Water Tower (LACO NO. 1301)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1301* **NR Status Code:** *3*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

One of three vertical projections that characterize the Historic Power Plant complex, the Water Tower (LACO No.1301) is located in the courtyard formed by the 1909-1911 Shop, Laundry, and Ice Plant (LACO No. 1302) and the 1925 Power Plant (LACO No. 1300). The Water Tower is a freestanding steel trellis structure, standing 125 feet tall and crowned by a 100,000-gallon capacity, bullet shaped, metal holding tank. Currently not in use, the structure is in fair condition.

(See Continuation Sheet 2 of 2.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *View of Water Tower from the south, January 29. 2007*

***P6. Date Constructed/Age and Sources:** *Circa 1913, according to historic aerial photographs, and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

***P9. Date recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Resource Name or #** (Assigned by recorder) *Water Tower (LACO NO. 1301)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or architectural drawings were found for this structure. Comparison of historic photographs with the current appearance of the Water Tower suggest that there have not been any alterations to the structure.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Water Tower (LACO No. 1301) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The structure was erected in 1933 to provide a water holding tank for the Power Plant of the Los Angeles County Poor Farm. The structure continued to serve in that capacity until the Power Plant was no longer operating. Visible from the surrounding community, the Water Tower also serves a placemarker in the urban landscape.

The Water Tower has no alterations and still reflects its period of construction. It retains integrity of location, feeling, association, design, materials, and workmanship. The structure has retained the character-defining features of a water holding tank, which include the bullet-shaped tank and freestanding steel trellis support structure. Its setting has been altered through the deterioration of the Historic Power Plant and the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

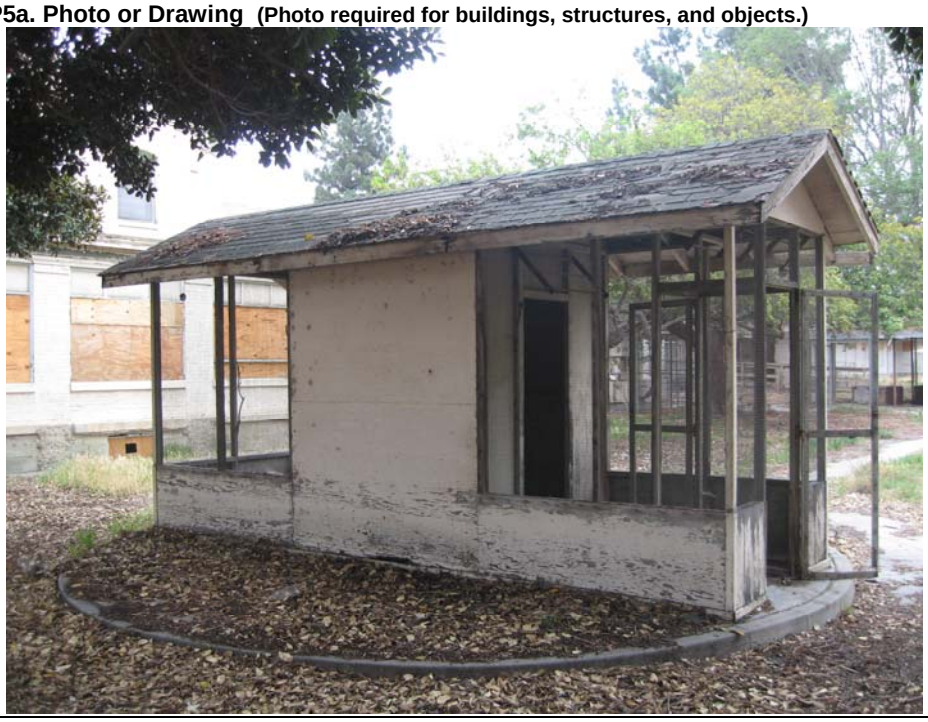
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO No. Unknown* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Aviary (LACO No. 1312) is located in the courtyard of the Men's Psychiatric Wards. The small structure is one-story in height and symmetrical in appearance. A rectangular structure that is longer than it is wide, it sits on a raised circular concrete slab foundation. The wood-framed structure consists of a central, enclosed space with screened-in spaces at each end. A front-gabled roof with moderately overhanging eaves caps the structure. Composition shingles cover the roof and plywood sheets cover the exterior walls. Two screen gates in succession, creating an entry cage, are located at the south end of the structure. Existing landscaping surrounding the Aviary consists of mature shrubs, trees and grass. The resource is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South Façade and East Elevation, Facing Northwest, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1888 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations as they appear from historic photographs include: replacement roofing material and plywood sheeting.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Aviary (LACO No. 1312) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The structure was erected in 1888 in the central court of the original buildings at the County Poor Farm. This courtyard was located in the grassy setback that now occupies the space between the Auditorium (LACO No. 1261) and Erickson Avenue. Consistent with the institution's emphasis on the benefits of exposing inmates of the Poor Farm to nature and the outdoors, the aviary was thought to have a therapeutic effect. In 1929, when the original Administration Building was demolished, the Aviary was replaced by a reflecting pond in the courtyard. By 1932, the Aviary was apparently located on the corner of Consuelo and Erickson, where it briefly became the home of two monkeys. When additional animals were purchased and a small zoo created, new cages were required. Sometime afterwards, the Aviary was moved to its present location in the interior courtyard area of the 1907 Psychiatric Ward Building (LACO No. 1205). It was thought to provide a calming influence for the patients. The structure is currently unoccupied.

Although altered by relocation and reconstruction, the structure reflects the District's period of significance. Intact character-defining features include; medium-pitched roof, screened viewing areas, and utilitarian appearance.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

CONTINUATION SHEET

Primary #
HRI#
Trinomial

Page *1* **of** *1* ***Resource Name or #** (Assigned by recorder) *Shed (LACO NO. 1333)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1333* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Shed (LACO No. 1333) was originally located directly southwest of the intersection of Juniper and Laurel Streets. The building was demolished some time in the late 20th century. Concrete slab flooring and foundation are the only things that remain from this building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos south Campus Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources (CRHR) (under Criterion 1). The current study confirmed that Shed (LACO No. 1333) is no longer a contributor to the Historic District under Criterion 1 due to its demolition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1931 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

CONTINUATION SHEET

Primary #
HRI#
Trinomial

Page *1* **of** *1* ***Resource Name or #** (Assigned by recorder) *Vivarium (LACO NO. 1334)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1334* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

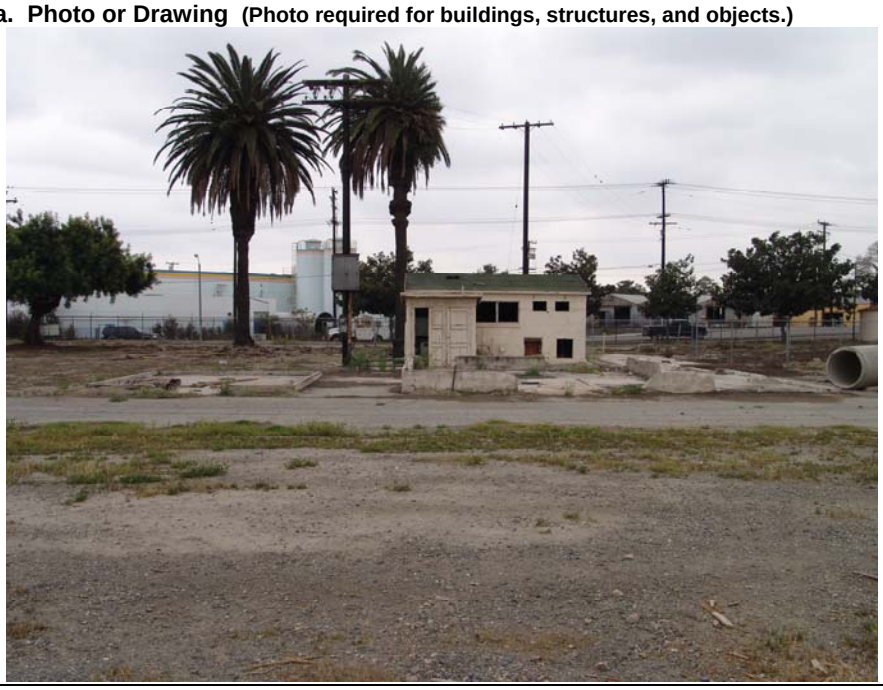
***P3a. Updated Description:**

The Vivarium (LACO No. 1334) was originally located in the small block bounded by Laurel Street to the north and west, Juniper Street to the east, and Aliso Street to the south. The Vivarium has been demolished. Concrete slab foundation and paving is all that remains of this building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos South Campus Historic District on September 30, 1996. It is therefore also listed in the California register of Historical Resources (CRHR) (under Criterion 1). The current study confirmed that Viviarium (LACO No. 1334) is no longer a contributor to the Historic District under Criterion 1 due to its demolition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of North Elevation, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995.

2. **Resource Identifier:** *LACO #1335* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for The South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Brooder House/Vivarium Annex (LACO No. 1335) is located in an open area west of Juniper Street and north of Aliso Street. Utilitarian in style, the Brooder House is one story, symmetrical in appearance and rectangular in plan. It is capped by a low-pitched front gabled roof with slightly overhanging eaves. Rolled asphalt sheets cover the roof. The building sits on a concrete slab foundation and its exterior walls consist of painted unreinforced brick masonry. A band of concrete at the top of the wall plate forms a sort of frieze. The primary entrance is centered on the east façade and consists of a wide wood door set between two boarded up, half-sized sidelights and beneath a boarded up transom. The triangular head of this "surround" echoes the pitch of the roof. Rectangular screened vent openings are located in a linear arrangement high up on the side and rear elevations below the eaves. A series of large, rectangular openings set nearly at ground level on the side elevations indicate that they were intended for the building's original occupants, hens. A shed is located directly north of the structure and it has a concrete block structural system and wood paneled doors. The areas immediately north and west of the structure are paved with concrete. The property is in deteriorated condition and has shows evidence of fire damage.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Elevation facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1929 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings could be found for this building. Alterations to this building appear to be limited to replacement roofing material and enclosure of some original openings .

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Brooder House / Vivarium Annex (LACO No. 1335) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1929 as a chicken coop and to house the egg incubator for the County Farm poultry yard. The building continued to be used in that capacity until the farming operations were phased out in the late 1950s. The building is currently abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects its period of construction. It retains integrity of location, design, materials, workmanship, feeling, and association. Extant character-defining features include: front-gabled roof, masonry construction, distinctive primary entrance configuration, and fenestration indicative of its function. Its setting has been altered through the modification of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District .

***Resource Name or #** (Assigned by recorder) *Train Station, Warehouse (LACO No. 1352)*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1352* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Train Station, Warehouse (LACO No. 1352) was originally located west of Laurel Street at its southern curve into Aliso Street. The Train Station, Warehouse has been demolished. Nothing exists of the building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos South Campus Historic District on September 30, 1996. It is therefore also listed in the California register of Historical Resources (CRHR) (under Criterion 1). The current study confirmed that the Train Station, Warehouse (LACO No. 1352) is no longer a contributor to the Historic District under Criterion 1 due to its demolition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Facing south, December 3, 2007.*

***P6. Date Constructed/Age and Sources:** *1907according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1356* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Tool House (LACO No. 1356) is located almost centrally in the block bounded by Consuelo Street to the north and east, Erickson Avenue to the west, and Bonita Street to the south. It is one-story, nearly symmetrical in appearance and rectangular in plan. The wood-framed, vernacular building is capped by a low-pitched, front-gabled roof with exposed rafters underneath the overhanging eaves. Small square vents with wide wood casings are located in the gable ends. The building sits on a concrete slab foundation and is clad in board-and-batten siding. Fenestration on all elevations consists of two-over-one wood-framed double-hung windows. The primary entrance is offset to the north on the west façade and contains a wide, wood slab door. Both windows and front door are defined by plain wood surrounds. A shed has been attached to the south elevation. The area surrounding the property is paved in concrete and asphalt.. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of West Façade, Facing East, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. There do not appear to be any alterations to the building.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Tool House (LACO No. 1356) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1926 as a service and support building for the operations of the County Farm. The building continued to be used as a tool storage area until it was abandoned in the late 20th century.

The exterior appearance of the building still reflects the District's period of significance. The building retains integrity of location, feeling, association, design, materials, and workmanship. Character-defining features include: low-pitched, front-gabled roof with slightly projecting eaves; wood-framing and board-and-batten siding; exposed rafters; wood sash windows; and wide window and door surrounds with slightly projecting wooden sills. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1357* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Landscape Office (LACO No. 1357) is located in the southwest portion of a large, open, grassy area bounded by Consuelo Street to the north, Erickson Avenue to the east, Bonita Street to the south, and Dahlia Street to the west. A one-story, vernacular building, the Landscape Office is asymmetrical in appearance and rectangular in plan. A shed roof that slopes down towards the west tops the building, while a full-width, attached porch is covered by a lower shed roof which slopes the opposite direction. Composition shingles cover the roofs. Both the exterior walls and the foundation skirting are sheathed with board-and-batten siding. The porch is elevated a few steps above ground level. Wood posts support the porch roof. No railing encloses the porch space. The entry is located at the north end of the façade (east); the only other opening on this elevation is a small window at the south end. Fenestration on the remaining elevations is similarly sparse and consists of variously sized aluminum sash sliders. Two detached wood sheds nearly abut the west (rear) elevation. Existing landscaping surrounding the Landscape Office consists of mature trees and patchy grass. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of East Façade, Facing West, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1938 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations include the replacement of the original wood framed windows with metal sliding windows and the replacement of the roofing material with rolled composition shingles.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Landscape Office (LACO No. 1357) as a contributor to the Historic District under Criterion A/1, association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected in 1938 to serve as the landscaping office for the grounds supervisor of the County Poor Farm. Landscaping had been integral to the overall design of the Poor Farm since its founding in 1888. The landscaping was carefully crafted over the years to create a beautiful, lush welcoming environment for the patients, staff, and visitors. This building served as the landscaping administrative office for many years until the deterioration of the grounds in the late 20th century. The building is currently abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects the District's period of significance. It retains integrity of location, feeling, association, design, materials, and workmanship. Extant character-defining features include: shed roof, full-width porch with wooden floors and posts, wood structural system, and board-and-batten siding. Its setting has been altered through the deterioration of the surrounding landscape.

History:

Established in 1888, the Los Angeles County Poor Farm is an important institution in the public welfare and health care history of the County of Los Angeles. The County Poor Farm was built to provide a publicly-funded facility to house indigents with the Los Angeles County hospital system. In its role as a farm, the County Poor Farm supplied agricultural products to other Los Angeles County institutional facilities during the first half of the 20th century. Beginning in 1907 with the construction of the psychiatric wards, the County Poor Farm began to transition away from the provision of indigent care and focus instead on the treatment of patients with chronic medical and/or psychiatric conditions. By 1952, the former County Poor Farm, renamed Rancho Los Amigos in 1932, had evolved into a medical hospital that specialized in the rehabilitative care of persons with physical disabilities, and was especially associated with the treatment of polio. By the end of 20th century, the Historic District had been largely vacated (except for storage), in favor of newer hospital buildings built north of the Historic District.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2008* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

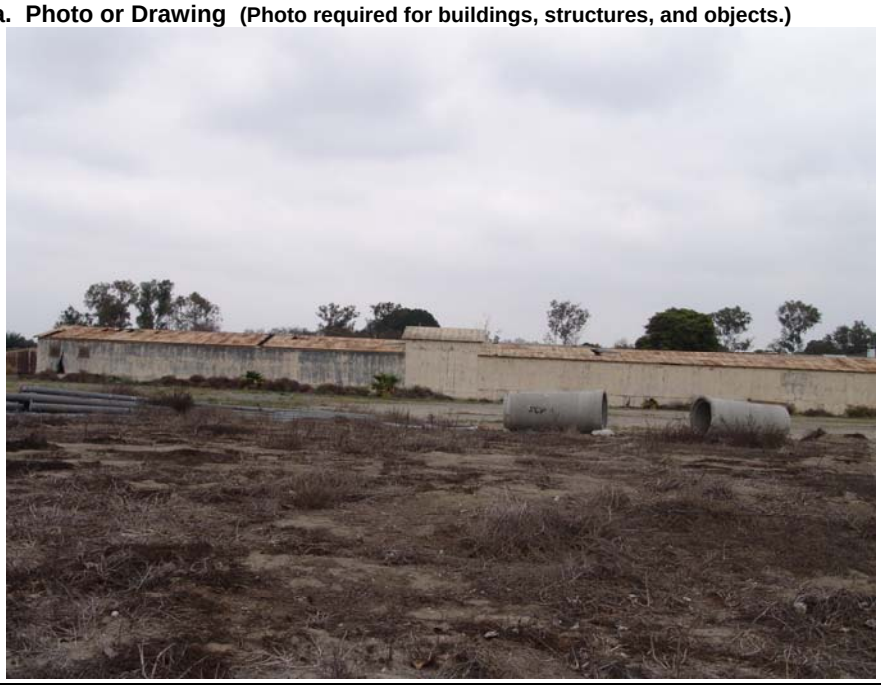
1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #1379, 4121* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

Composed of two attached buildings, the Garage (LACO Nos. 1379 and 4121) is located in an open area directly southeast of the intersection of Laurel and Bonita Streets and west of Juniper Street. The Garage is one-story, with a central roof projection, asymmetrical in appearance and rectangular in plan. Long and linear, the wood-framed, utilitarian building is capped by a shed roof with a front overhang and shallow eaves. The building sits on a concrete slab foundation. Both the roof and the exterior walls are covered with corrugated metal sheets. Windows are located on the south and west elevation of LACO No. 1379 only and Include two windows that have been boarded up and one wood sash two-over-two casement window with safety glass. The north façade consists of an open loggia supported by wood posts. The ground north of the garage is paved with asphalt whereas the area south of the building is dirt with patchy grass and weeds. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South elevation, Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *1926-1929 according to historic aerial photographs and Fliedner, Colleen Adair. 1990. Centennial, Rancho Los Amigos Medical Center, 1888-1988. Downey, California: Rancho Los Amigos Medical Center.*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.

***B6. Updated Construction History:** (Construction date, alterations, and date of alterations)

No building permits or original architectural drawings were found for this building. Alterations to the building include the removal of the original windows and the replacement of the loggia wood posts on the north façade.

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. The current study confirmed the significance of the Garage (LACO Nos. 1379 and 4121) as a contributor to the Historic District under Criterion A/1,association with events that have made a significant contribution to the broad patterns of local or regional history. The property is significant for its association with the development of the Los Angeles County Poor Farm, which had a period of significance from 1888 to 1952. The building was erected from 1926 to 1929 as a storage area for large vehicles and building materials for the County Poor Farm. The building continued to serve in this capacity until the late 20th century when it was abandoned.

Although the building has been somewhat altered, its exterior appearance still reflects the District's period of significance. The building has retained most of its character-defining features including; a series of large, open bays; wood framed structural system; minimal window openings; and exterior walls and roof clad in corrugated metal sheets.

***Recorded by:** *Rebecca L. Silva, Sapphos Environmental, Inc.* ***Date:** *June 2, 2007* ☐ **Continuation** ☒ **Update**

This is an update to two previous surveys:

1 **Resource Identifier:** *Rancho Los Amigos Medical Center* **CHR Status Code:** *2D2*
McAvoy, Christy J. 1994 Northridge Earthquake Project Review: Rancho Los Amigos Medical Center: Survey of Earthquake Damaged Properties for Purposes of Section 106 Review. Historic Resources Group. 26 July 1995

2. **Resource Identifier:** *LACO #4118* **NR Status Code:** *6Z*
Post/Hazeltine Associates. Intensive Historic Structures/Sites Survey for the South Campus of Rancho Los Amigos Rehabilitation Center, Los Angeles County, California. 19 March 2004.

***P3a. Updated Description:**

The Garage, Shed (LACO No. 4118) is located directly southeast of the intersection of Laurel and Bonita Streets. The Garage, Shed is one-story, symmetrical in appearance and rectangular in plan. The wood-framed building is capped by a shed roof with sloping front overhang and shallow eaves, and is covered by corrugated metal sheets. The building sits on a raised concrete foundation and its exterior walls consist of corrugated metal sheets. The south façade consists of an open loggia supported by wood posts. The ground surrounding the garage is paved with asphalt. The property is in deteriorated condition.

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) *Overview of South elevation, Facing North, January 29, 2007*

***P6. Date Constructed/Age and Sources:** *circa 1965 according to historic aerial photographs*

***P8. Recorded by:**
Rebecca L. Silva
Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:**
June 2, 2008

***P10. Survey Type:** (Describe)
Intensive Survey Update

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") *Sapphos Environmental, Inc., June 2010. Rancho Los Amigos Historic District Update Report, Prepared for the County of Los Angeles.*

***B10. Updated Significance:**

This property was determined eligible for listing in the National Register of Historic Places under Criterion A as a contributor to the Rancho Los Amigos Historic District on September 30, 1996. It is therefore also listed in the California Register of Historical Resources under Criterion 1. However, the current study confirmed that Garage, Shed (LACO No. 4118) is no longer a contributor to the significance of the Historic District due to a date of construction that post-dates the 1888-1952 period of significance of the Historic District. According to historic aerials, the building was erected in circa 1965. A revised CHR status code of 6Z is recommended.

APPENDIX B
GLOSSARY OF TERMS

GLOSSARY OF TERMS

This glossary provides definitions of architectural terms used in various environmental documentation produced in support of the Rancho Los Amigos Historic District. These definitions were obtained from recognized literature in the field of historic resources. A list of reviewed literature is provided in the References section below.

Arcade: A series of arches supported by columns or pillars; a covered passageway.

Architrave: An ornamental molding or decorative band around or above an opening, such as a door or window or around a panel. In Classical orders, it is the lowest member of entablature, which is the beam that spans from column to column, resting directly on the capitals of the columns.

Art Deco: A decorative style stimulated by the Paris Exposition International des Arts Decoratifs et Industrielles Modernes of 1925, and widely used in the architecture of the 1930s, including skyscrapers designs such as the Chrysler Building in New York; characterized by sharp angular or zigzag surface forms and ornaments. Also referred to as Style Moderne.

Battered: To incline from the vertical. When a wall or pier is thicker at the bottom than it is at the top.

Baroque: A European style of architecture and decoration that developed in the 17th century in Italy from late Renaissance and Mannerist forms and culminated in the churches, monasteries, and places of southern Germany and Austria in the early 18th century. It is characterized by interpenetration of oval spaces, curved surfaces, and conspicuous use of decoration, sculpture, and color.

Barrel vault: A masonry vault of plain, semicircular cross section, supported by parallel walls or arcades and adapted to longitudinal areas.

Bay: Within a structure, a regularly repeated spatial element defined by beams or ribs and their supports.

Board-and-batten: A type of wall cladding for wood-frame houses; closely spaced, applied boards or sheets of plywood, the joints of which are covered by narrow wood strips.

Bracket: Any overhanging member projecting from a wall or other body to support a weight, such as a cornice, acting outside the wall.

Art Deco: A decorative style stimulated by the Paris Exposition International des Arts Decoratifs et Insustrielles Modernes of 1925, widely used in the architecture of the 1930s, including skyscraper designs such as the Chrysler Building in New York; characterized by sharp angular or zigzag surface forms and ornaments. Also referred to as Style Moderne.

Brick Vernacular: A vernacular building using brick as its structural system.

Building code: Law setting forth minimum standards for the construction and use of buildings to protect the public health and safety.

Casement window: A window sash that swings open along its entire length, usually on hinges fixed to the sides of the opening into which it is fitted.

Character-defining feature: *Character* refers to all those visual aspects and physical features that make up the appearance of every historic building. Character-defining elements include the overall shape of the building, its materials, craftsmanship, decorative details, interior spaces, and features, and the various aspects of its site and environment.

Classical Revival style: A style of American architecture, based primarily on the use of Roman forms and classical antiquity, typically symmetrical in form and sometimes similar to a classical temple.

Contributor: A site, building, or structure in a historic district that generally has historic, architectural, cultural, or archaeological significance.

Coping: A protective cap, top, or cover of wall, parapet, pilaster, or chimney; often of stone, terracotta, concrete, metal, or wood. May be flat, but commonly sloping, double-beveled, or curved to shed water so as to protect masonry below from penetration of water from above. Most effective if extended beyond wall face and cut with a drip.

Corbel: In masonry, a projection or one of a series of projections, each stepped progressively farther forward with height; anchored in a wall, story, column, or chimney; used to support an overhanging member above or, if continuous, to support overhanging courses; may support an ornament of similar appearance.

Corbel brick course: A masonry course acting as a corbel, or an ornament of similar appearance.

Cornice: Any molded horizontal projection that crowns or finishes the top of a wall where it meets the edge of the roof; sometimes ornamented. The exterior trim of a structure where the wall and roof meet. The third or uppermost division of an entablature, resting on the frieze. An ornamental molding that forms the top member of a door or window frame, usually of wood or plaster. An ornamental molding that usually extends around the walls of a room just below the ceiling.

Craftsman style: A style of house most popular from about 1900 to 1920, greatly influenced by the Arts and Crafts movement and popularized by Gustav Stickley in *The Craftsman*. Stickley also made construction drawings of such houses, in many sizes and configurations, available at a reasonable price. Complete precut components for the houses were available for purchase by catalogue from mail-order companies and were shipped by railroad to destinations throughout the nation. As a result, this style of house became the most popular small dwelling in the nation. The interior typically featured a high wainscot that was integrated with the decor and windows as part of the structural decoration. The stairway from the living room to the floor was often an important feature.

Crown molding: Any molding serving as a corona or otherwise forming the crowning or finishing member of a structure.

Cupola: A domical roof on a circular base often set on the ride of a roof.

Dentil: One of a band of small, square, toothlike blocks forming part of the characteristic ornamentation of the Iconic, Corinthian, and Composite orders, and sometimes the Doric.

Dormer: A structure projecting from a sloping roof usually housing a window or ventilating louver.

Elevation: A drawing showing the vertical elements of a building, either exterior or interior, as a direct projection onto a vertical plane. The vertical distance above or below some established reference level.

Eligible property: Property that meets the criteria for inclusion in the National Register of Historic Places but is not formally listed.

Entablature: In Classical architecture and its derivatives, an elaborate horizontal band and molding supported by columns; horizontally divided into three basic elements: architrave, frieze, and cornice. The proportions and detailing of an entablature are different for each order and are strictly prescribed. Any similar construction that crowns a wall, window, or doorway.

Facade: The exterior face of a building that is considered to be the architectural front, sometimes distinguished from the other faces by more elaborate architectural and/or ornamental details.

Fenestration: The design and arrangement of windows in a building.

Flute: A lengthwise groove or channel, especially one of many such parallel grooves, used decoratively, as along the shaft of a column.

Freestanding: A term descriptive of a structural element that is fixed at its lower end but not constrained throughout its vertical height.

Frieze: In Classical architecture and derivatives, the middle horizontal member of three main divisions of an entablature; it is above the architrave and below the cornice. A decorative band at or near the top of an interior wall below the cornice. In house construction, a horizontal member connecting the top row of the siding with the underside of the cornice.

Gable: The vertical triangular portion of the end of a building having a double-sloping roof, from the level of the cornice or eaves to the ridge of the roof.

Gargoyles: A waterspout projecting from the roof gutter of a building, often carved grotesquely.

Guidelines: A reference to *The Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring & Reconstructing Historic Buildings* (Guidelines). The Guidelines have been prepared to assist in applying the Secretary of the Interior's Standards to all project work; consequently, they are not meant to give case-specific advice or address exceptions or rare instances. Therefore, it is recommended that the advice of qualified historic preservation professionals be obtained early in the planning stage of the project. Such professionals may include architects, architectural historians, historians, historical engineers, archaeologists, and others who have experience in working with historic buildings. The Guidelines pertain to both exterior and interior work on historic buildings of all sizes, materials, and types.

Historic district: An area that generally includes within its boundaries a significant concentration of properties linked by architectural style, historical development, or a past event.

Integrity: The authenticity of physical characteristics from which properties obtain their significance.

Lintel: A horizontal structural member that spans the top of an opening such as a window; supports the weight of the wall directly above it.

Massing: The overall bulk, size, physical volume, or magnitude of a structure.

Monitor: A superstructure that straddles the ridge of a roof or that crowns a roof or dome; may be glazed to provide light below or may be louvered to provide ventilation below.

National Register of Historic Places: The National Register of Historic Places is the nation's official list of cultural resources worthy of preservation. Authorized under the National Historic Preservation Act of 1966, the National Register is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect the nation's historic and archaeological resources. Properties listed in the National Register include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archaeology, engineering, and culture. The National Register is administered by the National Park Service, which is part of the U.S. Department of the Interior.

Noncontributor: A feature consisting of a site, building, or structure located within a historic district that is not recognized as contributing to the historic, architectural, cultural, or archaeological significance of the district.

Order: In Classical architecture, a particular style of column having a prescribed entablature and standardized details, including its capital and base. The term often is limited to a single shaft of a column with its associated appurtenances; the distinction between one order and another is marked by the details of one such unit of a colonnade. The Greeks developed the Doric order, Ionic order, and Corinthian order; the Romans added the Composite order and Tuscan order. For each order, the height and spacing of the columns were established in terms of a specified number of diameters of the lower part of the columns, and the design of the base also was prescribed; the height of the entablatures was determined by the height of the columns. Often used in Classical Revival style, Greek Revival style, and Neoclassical style buildings in America before the 20th century.

Ornament: In architecture, a detail of shape, texture, and/or color—such as an embellishment or decoration—that is deliberately exploited to attract the attention of an observer.

Parapet: A low-guarding wall at any point of sudden drip, as at the edge of a terrance, roof, battlement, balcony, etc. In an exterior wall, fire wall, or party wall, the part entirely above the roof.

Pediment: In Classical architecture and its derivatives, a low triangular gable usually having a horizontal cornice enclosing a tympanum, with raked cornices on each side, surmounting or crowning a portico or another major division of a facade, end wall, or a colonnade. A gable above or over a door, window, or hood; usually has a horizontal cornice, crowned with slanting sides forming a triangle but also may be crowned with other configurations, such as curved or broken sides.

Pent roof: A roof formed like an inclined plane, the slope being all on one side.

Period of significance: The span of time during which significant events and activities occurred. Events and associations with historic properties are finite; most properties have a clearly definable period of significance.

Picture rail: Any of numerous types of moldings or other such devices formed so as to support picture hooks at or near the ceiling.

Pier: A column designed to support concentrated load. Also known as a member, usually in the form of a thickened section, which forms an integral part of a wall; usually placed at intervals along the wall to provide lateral support or to take concentrated vertical loads.

Pivot window: A window having a sash (ventilator) that rotates about fixed vertical or horizontal pivots, located at or toward the center, in contrast to one hung on hinges along an edge.

Porte-cochère: A door-way large enough to let a vehicle pass from street to parking area. Also known as a carriage porch.

Preservation: The act or process of applying measures necessary to sustain the existing form, integrity, and materials of a historic property. Work, including preliminary measures to protect and stabilize the property, generally focuses on the ongoing maintenance and repair of historic materials and features rather than on extensive replacement and new construction. New exterior additions are not within the scope of this treatment; however, the limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-required work to make properties functional is appropriate within a preservation project.

Proscenium arch: An arch or any equivalent opening in the proscenium wall through which the state is seen by the audience.

Reconstruction: The act or process of depicting, by means of new construction, the form, features, and detailing of a nonsurviving site, landscape, building, structure, or object for the purpose of replicating its appearance at a specific period of time and in its historic location.

Rehabilitation: The act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features that convey its historical, cultural, or architectural values.

Restoration: The act or process of accurately depicting the form, features, and character of a property as it appeared at a particular period of time by means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period. The limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-required work to make properties functional is appropriate within a restoration project.

Segmental arch: A circular arch in which the intrados is less than a semicircle.

Skylight: In a roof, an opening that is glazed with a transparent or translucent material; used to provide light to the space below it.

Sleeping porch: A porch, or a room lined with windows, used for sleeping; often located in an extension to a house, above another porch, or above a porte cochère.

Spanish Colonial Revival: An architectural style best known by the simple adobe to imposing Baroque inspired missions of the Southwest. Domestic architecture characterized by: single-story structures with flat or low pitched roof, stucco covered stone or adobe brick walls, multiple doors and sometimes verandas as well as courtyards (patios) with corridors (interior verandas).

Standards: Refers to *The Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, & Reconstructing Historic Buildings* (Standards). The Standards makes recommendations for maintaining, repairing, and replacing historic materials, as well as designing new additions or making alterations; as such, the Standards cannot, in and of itself, be used to make essential decisions about which features of a historic property should be saved and which might be changed. But once an appropriate treatment is selected, the Standards provides philosophical consistency to the work. There are Standards for four distinct, but interrelated, approaches to the treatment of historic properties: preservation, rehabilitation, restoration, and reconstruction.

Steel-frame construction: Construction in which the structural supporting elements consist of some combination of steel beams, steel girders, and/or steel columns that are rigidly joined at their intersections.

Stringcourse: A continuous horizontal band of brick, stone, or wood on the exterior wall of a building; used for decorative purposes, or as a means of breaking up a large expanse of wall surface.

Terrazzo: Marble-aggregate concrete that is cast in place or precast and ground smooth; used as a decorative surfacing on floors and walls.

Transom window: A small window or series of panes above a door, or above a casement or double-hung window.

Tripartite window: A window having three sashes of the same height and in the same plane; there is a wide rectangular sash at its center and a narrower sash on each side; essentially the same as a Palladian window with the rounded head of the center sash lopped off at the top.

Truss: A combination of structural members, usually in some form of triangular arrangement, that provides a rigid framework for supporting roofs, floors, and the like.

Tuscan order: One of the five Classical orders; a simplified version of the Roman Doric order to which it is similar but has fewer and bolder moldings, unfluted columns, a plain frieze, and no triglyphs; its only decorative details are moldings.

Vernacular architecture: Architecture that makes use of common regional forms and materials at a particular place and time; sometimes includes strong ethnic influences of an immigrant population. Usually modest, unassuming, and unpretentious, and often a mixture of traditional and more modern styles or a hybrid of several styles. Houses were often owner-built by people familiar with local materials, regional climatic conditions, and local building customs and techniques, as described under folk literature. In contrast, industrial vernacular architecture has been the work of

architects as well as by owner-builders; their designs often have been based on examples from pattern books, using readily available manufactured components described in catalogs.

Voussoir: A wedge-shaped masonry unit in an arch or vault whose converging sides are cut as radii of one of the centers of the arch or vault.

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Appendix H

Rancho Los Amigos
Historic District Data Table, 2017

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
954	Lumber Shed	1942	Contributor	Not significant	Contributor	Maintenance/Support	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1100	Administration/Safety Police Building	1926	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Administration/Staff Buildings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		Yes	
1101	Harriman/ Superintendent's House	1915	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Administration/Staff Buildings	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)	The building has been lost due to arson in 2017.	No	
1121	Staff Cottage	1921	Contributor	Not significant	Contributor	Administration/Staff Buildings	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Contributor		No	
1123	Staff Cottage	1924	Contributor	Not significant	Contributor	Administration/Staff Buildings	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Contributor		No	
1137	Dairyman's House	1907	Contributor	Not significant	Contributor	Administration/Staff Buildings	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Contributor		No	
1163	Generator House	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
1177	Superintendent's Garage	1917	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Administration/Staff Buildings	Yes	Yes	Yes	No	No	No	Yes	No	Non-Contributor (Lack of Integrity)	The building was associated with the Harriman Residence (LACO No. 1101) which has been lost due to arson.	No	
1178	Superintendent's Shed	Circa 1917-1922	Not addressed	Significant	Noncontributor (6Z)	Administration/Staff Buildings	Yes	Yes	Yes	No	No	No	Yes	No	Non-contributor	The building was associated with the Harriman Residence (LACO No. 1101) which has been lost due to arson.	No	
1179	Dairyman's Garage	1926	Contributor	Not significant	Contributor	Administration/Staff Buildings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1184	General Ward 30	1913	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1185	General Ward 40	1913	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1186	General Ward 50	1916	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1187	General Ward 60	1926	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1188	General Ward 70	1928	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1189	Patient Ward 201	1923	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1190	Patient Ward 202	1923	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1191	Patient Ward 203	1923	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1192	Patient Ward 204	1923	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1193	Patient Ward 205	1926	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1194	Patient Ward 206	1926	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1195	Patient Ward 207	1926	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1196	Patient Ward 208	1928	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1197	Patient Ward 209	1928	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1198	Patient Ward 210	1928	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1199	Patient Ward 211	1928	Contributor	Not significant	Contributor	Patient Wards	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1202	Women's Psychiatric Ward	1924	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1203	Women's Psychiatric Ward	1919	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1204	Men's Psychiatric Ward	1924	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1205	Men's Psychiatric Ward	1907	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1207	Work Preparation Center No. 2	1925	Contributor	Not significant	Contributor	Agricultural/Occupational Therapy Facilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1238	Casa Consuelo	1930	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		Yes	
1239	Toilet Building	1930	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1240	Shelter	Unknown (Post-1952)	Contributor	Not significant	Contributor	Landscape Feature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)	Previous evaluations had incorrect construction date. Original structure was replaced with current structure post 1952.	No	
1241	Linen Room	1932	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1242	Toilet Building	1920	Not addressed	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1243	Open Shelter	Unknown (Post-1952)	Contributor	Not significant	Noncontributor (6Z)	Landscape Feature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
1244	Toilet Room	1916	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1245	Linen Room / Snack Bar No. 3	1932	Contributor	Not significant	Contributor	Patient Wards	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
1246	Canopy	Unknown (Post-1952)	Contributor	Not significant	Contributor	Landscape Feature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of significance)	Previous evaluations had incorrect construction date. Original structure was replaced with current structure post 1952.	No	
1247	Toilet Building	1925	Contributor	Not significant	Contributor	Patient Wards	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1251	Open Shelter	Unknown (Post-1952)	Contributor	Not significant	Noncontributor (6Z)	Landscape Feature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
1254	Chapel / Computer Center	1908	Contributor	Not significant	Contributor		No	Yes	Yes	Yes	No	Yes	Yes	No	Contributor		No	
1256	Toilet Building	1925	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Contributor		N	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1259	Wheelchair Repair	1932	Contributor	Not significant	Contributor	Maintenance/Support	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)	Historic aerials show the building has been significantly altered since its initial construction in 1932. The building originally had an L-shaped footprint but currently is a rectangular shaped building due to alterations		
1260	Bathhouse and Ward	1922	Contributor	Not significant	Contributor	Patient Wards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1261	Auditorium	1928	Contributor	Significant	Contributor	Dining/Social Facilities	No	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1262	Dining Room, Kitchen, Staff Room	1913–1926	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Dining/Social Facilities	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor	The building was found inidividualy eligible by previous reports. However, it lacks architectural merit due to multiple alterations that occurred over time. The building and its alterations lack cohesion and therefore it is not a good example of its architectural style.	No	
1263	Commissary and Receiving Room	1912	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Dining/Social Facilities	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor	The building was found inidividualy eligible by previous reports. However, it lacks architectural merit due to multiple alterations that occurred over time. The building and its alterations lack cohesion and therefore it is not a good example of its architectural style.	No	
1264	Bonita Hall	1932	Contributor	Not significant	Contributor	Dining/Social Facilities	No	No	No	Yes	Yes	Yes	Yes	Yes	Contributor		N0	
1265	Shelter	Circa 1933	Contributor	Not addressed	Contributor	Landscape Feature	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1266	Amigos Hall	1928	Noncontributor	Not significant	Noncontributor (6Y?)	Dining/Social Facilities	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
1267	Transportation Office	1930	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
1268	Storage	1932	Contributor	Not significant	Contributor	Maintenance/Support	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1270	Garage	1932	Contributor	Not significant	Contributor	Maintenance/Support	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1275	Workshop	1917	Contributor	Not significant	Contributor	Maintenance/Support	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1276	Lock Shop	1913	Contributor	Not significant	Contributor	Maintenance/Support	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1277	Garage	1925	Contributor	Not significant	Contributor	Maintenance/Support	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1278	Garage and Storage	1924	Contributor	Not significant	Contributor	Maintenance/Support	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1279	Garage	1925	Contributor	Not significant	Noncontributor (6Z)	Maintenance/Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1280	Garage Storage	1928	Contributor	Not significant	Contributor	Maintenance/Support	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1283	Trunk Storage	1923	Contributor	Not significant	Contributor	Agricultural/Occupational Therapy Facilities	No	No	No	Yes	Yes	No	Yes	Yes	Contributor		No	
1284	Grain Tank	Unknown	Noncontributor	Not significant	Noncontributor (6Y?)	Agricultural/Occupational Therapy Facilities	No	Yes	Yes	No	No	No	No	No	Non-Contributor (Lack of Integrity)		No	
1286	Garage/Storage	1920	Contributor	Not significant	Contributor	Maintenance/Support	No	Yes	No	No	Yes	No	Yes	Yes	Non-Contributor (Lack of Integrity)		No	
1287	Oil and Storage	1909	Contributor	Not significant	Contributor	Maintenance/Support	No	No	No	No	No	No	Yes	No	Non-Contributor (Lack of Integrity)	The building has been lost due to arson in 2017. All that remains are portions of the foundation, steps, and railing.	No	
1290	Shelter	Unknown (1926-1930)	Noncontributor	Not significant	Noncontributor (6Y?)	Landscape Feature	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1292	Pump House	1932	Noncontributor	Not addressed	Noncontributor (6Y?)	Utilities	No	No	No	No	No	No	Yes	No	Non-Contributor (Lack of Integrity)		No	
1295	Kitchen and Dining Building	1927	Contributor	Not significant	Contributor	Dining/Social Facilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1300	Power Plant	1925	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Utilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		Yes	
1301	Water Tower	1913	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Utilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		Yes	
1302	Shop, Laundry, Ice Plant	1909–1911	Contributor	Significant	Contributor, Individually Eligible (Under Criterion C/3)	Utilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		Yes	
1312	Aviary	1888	Contributor	Not significant	Contributor	Dining/Social Facilities	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Contributor	The Aviary was relocated in the 1920s to its present location. The materials indicate it has likely been rebuilt since its initial construction in 1888.	No	
1335	Brooder House / Vivarium Annex	1929	Contributor	Not significant	Contributor	Agricultural/Occupational Therapy Facilities	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Contributor		No	
1353	Greenhouse	Unknown (Post 1952)	Not addressed	Not significant	Noncontributor (6Z)	Maintenance/Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
1356	Tool House	1926	Contributor	Not significant	Contributor	Maintenance/Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1357	Landscape Office	1938	Contributor	Not significant	Contributor	Maintenance/Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		No	
1373	Grain Tank	N/A	Not addressed	Not significant	Noncontributor (6Z)	Agricultural/Occupational Therapy Facilities	No	Yes	Yes	No	No	No	No	No	Non-Contributor (Lack of Integrity)		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
1374	Grain Tank	N/A	Not addressed	Not significant	Noncontributor (6Z)	Agricultural/Occupational Therapy Facilities	No	Yes	Yes	No	No	No	No	No	Non-Contributor (Lack of Integrity)		No	
1379	Garage (1379 and 4121)	Unknown (Post 1954)	Contributor	Not significant	Contributor (assoc with 4121)	Maintenance/Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor		No	
1464	Shed	1945	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	No	No	No	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
2434	Shed, Men's Gymnasium	1949	Noncontributor	Not significant	Noncontributor (6Y?)	Dining/Social Facilities	No	No	Yes	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
2435	Patient Recreation Shed	1949	Noncontributor	Not significant	Noncontributor (6Y?)	Dining/Social Facilities	No	No	Yes	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		no	
2436	Classroom Hut/Shed	1949	Noncontributor	Not significant	Noncontributor (6Y?)	Dining/Social Facilities	No	No	Yes	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
2437	Metal Shed	1949	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	No	No	Yes	No	No	Yes	Yes	No	Non-Contributor (Lack of Integrity)		No	
2492	Toilet Room	1948	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	No	No	Yes	No	No	No	Yes	No	Non-Contributor (Lack of Integrity)		No	
2494	Shed	Unknown (Pre-1952)	Not addressed	Not addressed	Noncontributor (6Z)	Maintenance/Support	Yes	No	No	No	No	No	Yes	N/A	Non-Contributor (Lack of Integrity)		No	
2677	Post Office	1949	Noncontributor	Not significant	Noncontributor (6Y?)	Administration/Staff Buildings	No	No	No	No	No	No	No	No	Non-Contributor (Lack of Integrity)	Military barracks building moved from nearby military base to Poor Farm in 1949 and remodeled for post office; alterations include stucco siding and door replacements.	No	
3020	Bus Stop	N/A	Not addressed	Not addressed	Noncontributor (6Z)	Landscape Feature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not-Extant		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
3021	Bus Stop	N/A	Not addressed	Not addressed	Noncontributor (6Z)	Landscape Feature	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Non-Contributor (Do not contribute to District's significance)		No	
3022	Bus Stop	N/A	Not addressed	Not addressed	Noncontributor (6Z)	Landscape Feature	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Non-Contributor (Do not contribute to District's significance)		No	
3348	Garbage Can Room	1951	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor	The building was constructed within the period of significance and represents a building type that contributed to the overal operation of the institution.	No	
3368	Shed	N/A	Not addressed	Not addressed	Noncontributor (6Z)	Maintenance/Support	No	Yes	Yes	No	No	No	Yes	No	Non-Contributor (Lack of Integrity)		No	
3390	Prosthetic Shop	1953	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
3592	Chapel	1953	Not addressed	Not addressed	Noncontributor (6Z)	Dining/Social Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
3820	Loading Dock	1954	Noncontributor	Not significant	Noncontributor (6Y?)	Maintenance/Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
4118	Garage	Post-1965	Contributor	Not significant	Noncontributor (6Z)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
4121	Garage (1379 and 4121)	Unknown (Post 1954)	Contributor	Not significant	Contributor (assoc with 1379)	Maintenance/Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor		No	
5513	Station 18	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
5547	200,000 Gallon Tank	1966	Noncontributor	Not significant	Noncontributor (6Y?)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	

Rancho Los Amigos Historic District Survey Results (2017)

LACO No.	Name	Year Constructed	Contributor Status in 1995 Survey*	Significance Status in 2004 Survey*	Historic Status (Sapphos 2008)	Building Type	Integrity							Retains Integrity? Yes or No?	ESA (2017)	Notes	Individually Eligible?	Photograph
							Design	Workmanship	Materials	Feeling	Association	Setting	Location					
5548	Steam Plant	1966	Noncontributor	Not significant	Noncontributor (6Y?)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
5793	Electrical Distribution Panel	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
5798	Electrical Station 16	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
5799	Electrical Station 4C	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
5801	Generator House	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
6223	Electrical Station	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
6225	Electrical Station	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
6407	Electrical Station	Unknown (Post 1952)	Not addressed	Not addressed	Noncontributor (6Z)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside Period of Significance)		No	
7000	Butler Building	Unknown	Noncontributor	Not addressed	Noncontributor (6Y?)	Utilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Non-Contributor (Outside period of significance)		No	
None	Moreton Bay Fig Tree	Circa 1900 (planted)	Contributor	Not addressed	Contributor	Landscape Feature	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Contributor		Yes	

D-2 Rancho Los Amigos South Campus Project: Archaeological Resources Assessment Report

(CONFIDENTIAL - On file with the County)

D-3 Rancho Los Amigos South Campus Project: Paleontological Resources Assessment Report

(CONFIDENTIAL - On file with the County)

APPENDIX E
Energy Documentation

ESA

Construction Energy Analysis

Fuel Consumption Summary

Category	Value
Diesel fuel for heavy-duty construction equipment	252,165
Diesel fuel for Haul Trucks	47,230
Diesel fuel for Vendor Trucks	125,609
Gasoline fuel for workers	191,724
Total Diesel Consumption	425,004
Total Gasoline Consumption	191,724
Construction Phase Duration (years)	2.5
Annual Average Gallons Diesel	**169,167**
Annual Average Gallons Gasoline	**76,313**

Fuel saved with ATCM

10,660

Source	Diesel	Gas
Off-Road Equipment	252,165	-
Haul/Vendor	172,839	-
Worker	-	191,724
Total Project Fuel Consumption	**425,004**	**191,724**
Annual Average Gallons Diesel	**169,167**	
Annual Average Gallons Gasoline		**76,313**

	Los Angeles County Fuel Consumption		State Fuel Consumption	
	Diesel	**Gas**	**Diesel**	**Gas**
	590,196,078	3,659,000,000	3,798,039,216	15,584,000,000
Annual Project % of Consumption	0.029%	0.0021%	0.0045%	0.0005%

1. California Energy Commission, California Retail Fuel Outlet Annual Reporting (CEC-A15) Results, 2017
https://www.energy.ca.gov/almanac/transportation_data/gasoline/2010-2017_A15_Results.xlsx
Diesel is adjusted to account for retail (51%) and non-retail (49%) diesel sales.

Construction Energy Analysis

Off-Road Equipment

Equipment ≤ 100 HP

Parameter	Value
pounds diesel fuel/hp-hr (lb/hp-hr):[1]	0.41
diesel fuel density (lb/gal):[1]	7.11
diesel gallons/hp-hr (gal/hp-hr):	0.06
Total hp-hr :	1,987,994
Total diesel consumption (gal):	114,097

Equipment > 100 HP

Parameter	Value
pounds diesel fuel/hp-hr (lb/hp-hr):[1]	0.37
diesel fuel density (lb/gal):[1]	7.11
diesel gallons/hp-hr (gal/hp-hr):	0.05
Total hp-hr:	2,674,418
Total diesel gallons:	138,068

Total diesel gallons (off-road equipment): 252,165

1. 2017 Off-road Diesel Emission Factors, cells B30 and B31

Phase	Equipment	# of Equipment	Hours/ Day	HP	Load Factor	Days	Total hp-hr
Phase H-Campus Demolition	Concrete/Industrial Saws	1	8	81	0.73	87	41,154
Phase H-Campus Demolition	Excavators	3	8	158	0.38	87	125,364
Phase H-Campus Demolition	Other Construction Equipment	1	8	172	0.42	87	50,279
Phase H-Campus Demolition	Rubber Tired Dozers	2	8	247	0.40	87	137,530
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8	247	0.40	32	202,342
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8	97	0.37	32	91,878
Phase L-Campus Soils Remediation	Excavators	2	8	158	0.38	65	62,442
Phase L-Campus Soils Remediation	Graders	1	8	187	0.41	65	39,868
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8	247	0.40	65	51,376
Phase L-Campus Soils Remediation	Scrapers	2	8	367	0.48	65	183,206
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8	97	0.37	65	37,326
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8	81	0.73	71	33,586
Phase A-ISD Demolition	Excavators	3	8	158	0.38	71	102,308
Phase A-ISD Demolition	Other Construction Equipment	1	8	172	0.42	71	41,032
Phase A-ISD Demolition	Rubber Tired Dozers	2	8	247	0.40	71	112,237
Phase J-Campus Grading	Excavators	2	8	158	0.38	34	32,662
Phase J-Campus Grading	Graders	1	8	187	0.41	34	20,854
Phase J-Campus Grading	Rubber Tired Dozers	1	8	247	0.40	34	26,874
Phase J-Campus Grading	Scrapers	2	8	367	0.48	34	95,831
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	34	19,524
Phase K-Campus Landscaping	Forklifts	2	8	89	0.20	32	9,114
Phase K-Campus Landscaping	Skid Steer Loaders	2	8	65	0.37	32	12,314
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8	97	0.37	32	18,376
Phase K-Campus Landscaping	Trenchers	2	8	78	0.50	32	19,968
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8	247	0.40	34	214,989

Phase	Equipment	# of Equipment	Hours/ Day	HP	Load Factor	Days	Total hp-hr
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8	97	0.37	34	97,621
Phase C-ISD Grading/Excavation	Excavators	2	8	158	0.38	32	30,740
Phase C-ISD Grading/Excavation	Graders	1	8	187	0.41	32	19,628
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8	247	0.40	32	25,293
Phase C-ISD Grading/Excavation	Scrapers	2	8	367	0.48	32	90,194
Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8	97	0.37	32	18,376
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8	81	0.73	198	93,662
Phase F-ISD Utils/Street Improvements	Excavators	3	8	158	0.38	198	285,310
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8	247	0.40	198	312,998
Phase D-ISD Building Construction	Cranes	2	7	231	0.29	393	368,579
Phase D-ISD Building Construction	Forklifts	6	8	89	0.20	393	335,779
Phase D-ISD Building Construction	Generator Sets	2	8	84	0.74	393	390,862
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7	97	0.37	393	592,400
Phase D-ISD Building Construction	Welders	2	8	46	0.45	393	130,162
Phase G-ISD Paving	Pavers	2	8	130	0.42	26	22,714
Phase G-ISD Paving	Paving Equipment	2	8	132	0.36	26	19,768
Phase G-ISD Paving	Rollers	2	8	80	0.38	26	12,646
Phase E-ISD Architectural Coatings	Air Compressors	4	6	78	0.48	37	33,247
						Total ≤ 100	1,987,994
						Total >100	2,674,418

Construction Energy Analysis

On-Road Haul Trucks (HHDT)

Parameter	Value
EMFAC2017 Diesel Fuel Consumption Factor (gal/mile):[1]	0.16
Total Haul Truck VMT (miles):	301,496
Total VMT diesel gallons (on-road haul trucks):	**46,789**
HHDT Idling Fuel Consumption Factor (gal/min):[2]	0.015
Total Haul Truck Idle-Minutes per Year (minutes):	81,750
Total Idling diesel gallons (on-road haul trucks)[3]:	**441**
Total diesel gallons (on-road haul trucks):	**47,230**

Without ATCM	Gallons Saved
1226	785

1. California Air Resources Board, EMFAC2017 (Los Angeles County; Annual; CY 2020; Aggregate MY; Aggregate Speed, HHDT, DSL)
2. 1. Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, US Department of Energy. Accessed February 2019. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles
3. Incorporates estimated fuel savings from Anit-Idling Regulation (64 percent based on estimated CARB emissions reductions)
   Source: California Air Resources Board (CARB), 2004. Staff Report: Initial Statement of Reasons for Proposed Rulemaking, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling, Appendix F, July 2004, https://www.arb.ca.gov/regact/idling/isorappf.pdf.

Phase	Total One-Way Trips	Miles/Trip	VMT	Idle Minutes
Phase H-Campus Demolition	1,516	20	30,320	11,370
Phase I-Campus Site Preparation	0	20	0	0
Phase L-Campus Soils Remediation-Export1	888	152	134,976	6,660
Phase L-Campus Soils Remediation-Import	176	20	3,520	1,320
Phase A-ISD Demolition	5,752	20	115,040	43,140
Phase J-Campus Grading	1,534	5	7,670	11,505
Phase K-Campus Landscaping	0	20	0	0
Phase B-ISD Site Preparation	320	20	6,400	2,400
Phase C-ISD Grading/Excavation	714	5	3,570	5,355
Phase F-ISD Utils/Street Improvements	0	20	0	0
Phase D-ISD Building Construction	0	20	0	0
Phase G-ISD Paving	0	20	0	0
Phase E-ISD Architectural Coatings	0	20	0	0
		Total Haul Truck VMT:	301,496	
			Total Idle Minutes:	81,750

Construction Energy Analysis

On-Road Vendor Trucks (HHDT/MHDT)

Parameter	Value
EMFAC2017 Diesel Fuel Consumption Factor (gal/mile):[1]	0.1269
Total Haul Truck VMT (miles):	946,383
Total VMT diesel gallons (on-road vendor trucks):	**120,054**
HHDT Idling Fuel Consumption Factor (gal/min):[2]	0.0150
Total Vendor Truck Idle-minutes (min):	1,028,678
Total Idling diesel gallons (on-road vendor trucks):	**5,555**
Total diesel gallons (on-road vendor trucks):	**125,609**

Without ATCM	Gallons Saved
15430	9875

1. California Air Resources Board, EMFAC2017 (Los Angeles County; Annual; CY 2020; Aggregate MY; Aggregate Speed, HHDT/MHDT, DSL)
2. 1. Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, US Department of Energy. Accessed February 2019. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles
3. Source: California Air Resources Board (CARB), 2004. Staff Report: Initial Statement of Reasons for Proposed Rulemaking, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling, Appendix F, July 2004, https://www.arb.ca.gov/regact/idling/idling.htm, accessed November 2016.

Phase	Days	Trips/Day	Miles/Trip	VMT	Idle Minutes
Phase H-Campus Demolition	87	0	6.9	0	0
Phase I-Campus Site Preparation	32	0	6.9	0	0
Phase L-Campus Soils Remediation	65	0	6.9	0	0
Phase A-ISD Demolition	71	0	6.9	0	0
Phase J-Campus Grading	34	0	6.9	0	0
Phase K-Campus Landscaping	32	0	6.9	0	0
Phase B-ISD Site Preparation	34	0	6.9	0	0
Phase C-ISD Grading/Excavation	32	0	6.9	0	0
Phase F-ISD Utils/Street Improvements	198	0	6.9	0	0
Phase D-ISD Building Construction	393	349	6.9	946,383	1,028,678
Phase G-ISD Paving	26	0	6.9	0	0
Phase E-ISD Architectural Coatings	37	0	6.9	0	0

Total Vendor Truck VMT: 946,383

Total Idle-Minutes 1,028,678

Construction Energy Analysis

On-Road Workers (LDA, LDT1, LDT2)

Parameter	Value
EMFAC2017 Gasoline Fuel Consumption Factor (gal/mile):[1]	0.038
Total Worker VMT (miles):	5,068,060
Total VMT gasoline gallons (workers):	**191,724**

1. California Air Resources Board, EMFAC2017 (Los Angeles County; LDA, LDT1, LDT2; CY 2020; Aggregate MY; Aggregate Speed,GAS)

Phase	Days	One-Way Trips/Day	Miles/Trip	VMT
Phase H-Campus Demolition	87	18	14.7	23,020
Phase I-Campus Site Preparation	32	45	14.7	21,168
Phase L-Campus Soils Remediation	65	20	14.7	19,110
Phase A-ISD Demolition	71	18	14.7	18,787
Phase J-Campus Grading	34	20	14.7	9,996
Phase K-Campus Landscaping	32	20	14.7	9,408
Phase B-ISD Site Preparation	34	45	14.7	22,491
Phase C-ISD Grading/Excavation	32	20	14.7	9,408
Phase F-ISD Utils/Street Improvements	198	15	14.7	43,659
Phase D-ISD Building Construction	393	830	14.7	4,794,993
Phase G-ISD Paving	26	15	14.7	5,733
Phase E-ISD Architectural Coatings	37	166	14.7	90,287
			Worker VMT	5,068,060

Rancho Los Amigos
Operational Energy Analysis

Energy and VMT Estimates

Source	Natural Gas demand (million kBTU/yr)	Electricity demand (million kWh/yr)	Electricity demand from water demand (million kWh/yr)	Annual Worker and Visitor VMT
Rancho Los Amigos Government Buildings	6.767	10.532	2.561	17,525,340
Net Total	**6.767**	**10.532**	**2.561**	**13.093**

Source	CalEEMod Indoor Water Use (Mgal/yr)	CalEEMod Outdoor Water Use (Mgal/yr)	Total Water Use (Mgal/yr)	Electricity Demand from water Demand (million kWh)
Rancho Los Amigos Government Buildings	129.1	79.1	208.273	2.561
Net Total	**129.129**	**79.144**	**208.273**	**2.561**

CalEEMod Water Electricity Factors	Electricity Intensity Factor To Supply (kWh/Mgal)	Electricity Intensity Factor To Treat (kWh/Mgal)	Electricity Intensity Factor To Distribute (kWh/Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWh/Mgal)
Rancho Los Amigos Government Buildings	9727	111	1272	1911

Source: California Emissions Estimator Model (CalEEMod).

SCE Electricity Sales 2017 (million kwh/year)		85879	13.09		
			0.0152%		Project
		mmcf/day	billion cf/year	million kbtu/year	6.767
SoCal Gas 2017 gas consumption (milllion kBTU/year)		2,504	913.960	945,948.60	0.00072%
SCE Peak Electricity Demand		MW	KWhr	average	1/2 day
	2022	24,816	13,093,162.99400	1494.65331	2989.30662
				0.006%	0.012%
					Project
SoCal Gas Demand		mmcf/day	billion cf/year	million kbtu/year	6.767
	2022	2916	1064.340	1,101,591.90	0.00061%

Rancho Los Amigos
Operational Energy Analysis
Project Trips
Fuel Usage from VMT

Annual VMT (All): 17,525,340 miles/year
(from CalEEMod)

Fuel Type:[1]	GAS	DSL	ELEC	
Percent:	94.35%	4.21%	1.36%	
Miles per Gallon Fuel:	24.76	8.67	-	
Annual VMT by Fuel Type :	16,535,028	737,859	237,515	miles/year
Annual Fuel Usage :	667,812	85,134	-	gal/year
Annual Fuel Savings from Electric Vehicles:[2]	-	-	9,593	gal/year (assumed to be gasoline)

Los Angeles County Fuel Consumption3

	Gasoline	Diesel
Los Angeles County:	3,659,000,000	590,196,078
Project Annual:	667,812	85,134
Net Project Annual:	667,812	85,134
Percent Net Project of Los Angeles County:	0.018%	0.014%

Notes:

1. California Air Resources Board, EMFAC2017, South Coast Air Basin; 2024; Annual; All vehicle types; Aggregate model year; Aggregate speed). https://www.arb.ca.gov/emfac/2017/
2. Assumes electric vehicles would replace traditional gasoline-fueled vehicles.
3. California Energy Commission, California Retail Fuel Outlet Annual Reporting (CEC-A15) Results, 2016, http://www.energy.ca.gov/almanac/transportation_data/gasoline/2016_A15_Results.xlsx. Accessed March 2018. Diesel is adjusted to account for retail (52%) and non-retail (48%) diesel sales.

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: SOUTH COAST
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population
SOUTH COAST	2022	LDA	Aggregated	Aggregated	GAS	6370883
SOUTH COAST	2022	LDT1	Aggregated	Aggregated	GAS	716397.4
SOUTH COAST	2022	LDT2	Aggregated	Aggregated	GAS	2182002
SOUTH COAST	2022	LHD1	Aggregated	Aggregated	GAS	171358.6
SOUTH COAST	2022	LHD2	Aggregated	Aggregated	GAS	29049.29
SOUTH COAST	2022	MCY	Aggregated	Aggregated	GAS	288756.3
SOUTH COAST	2022	MDV	Aggregated	Aggregated	GAS	1530646
SOUTH COAST	2022	MH	Aggregated	Aggregated	GAS	34090.76
SOUTH COAST	2022	OBUS	Aggregated	Aggregated	GAS	5832.051
SOUTH COAST	2022	SBUS	Aggregated	Aggregated	GAS	2563.073
SOUTH COAST	2022	T6TS	Aggregated	Aggregated	GAS	24783.34
SOUTH COAST	2022	T7IS	Aggregated	Aggregated	GAS	77.19581
SOUTH COAST	2022	UBUS	Aggregated	Aggregated	GAS	952.146

CNG	10260.34269		DSL	506812.16
Total	12037605.19	0.085%	DSL %	4.21%
			Gas	11357391
			Gas %	94.35%
			Electric	163141.83
			Electric %	1.36%

Rancho Los Amigos
Operational Energy Analysis

Estimated Electricity demand from Electric Vehicle Supply Equipment (EVSE)

Analysis Year:	2022
EMFAC2017 Vehicle Population Mix	
% Electric	1.4%

Source: CARB, EMFAC2017 (SCAQMD region, year 2026, aggregate vehicle fleet).

Land Use Type	Number of EVSE Charging Outlets/Panels [a]	Percent of Electric Vehicles [b]	Average Charge (kWh/day) [c]	Days/Year	Electricity Demand (kWh/yr)
Single-Family Residential	142	1.4%	4.4	365	3,091

Notes:

a. Conservatively assumes each private garage has two outlets/panels.

b. Assumes percent electric vehicle ownership is equal to the EMFAC2017 vehicle population mix.

c. Estimated based on reference sources listed below.

Sources:

US Department of Energy. Alternative Fuels Data Center, 2016. Hybrid and Plug-In Electric Vehicle Emissions Data Sources and Assumptions.
Available at: https://www.afdc.energy.gov/vehicles/electric_emissions_sources.html.

US Department of Energy. Smith, Margaret, 2016. Level 1 Electric Vehicle Charging Stations at the Workplace.
Available at: https://www.afdc.energy.gov/uploads/publication/WPCC_L1ChargingAtTheWorkplace_0716.pdf.

UCLA Luskin Center for Innovation. Williams, Brett and JR deShazo, 2013. Pricing Workplace Charging: Financial Viability and Fueling Costs.
Available at: http://luskin.ucla.edu/sites/default/files/Luskin-WPC-TRB-13-11-15d.pdf.

Rancho Los Amigos
Operational Energy Analysis
Project without Trip Reductions
Fuel Usage from VMT

Annual VMT (All): 43,353,344 miles/year

(Without trip and VMT reductions from land use characteristics and proximity to public transit.)

Fuel Type:[1]	GAS	DSL	ELEC	
Percent:	93.20%	4.18%	2.62%	
Miles per Gallon Fuel:	22.60	8.25	-	
Annual VMT by Fuel Type :	40,405,317	1,812,170	1,135,858	miles/year
Annual Fuel Usage :	1,787,792	219,651	-	gal/year
Annual Fuel Savings from Electric Vehicles:[2]	-	-	50,258	gal/year (assumed to be gasoline)

Notes:

1. California Air Resources Board, EMFAC2014, South Coast Air Basin; 2017; Annual; All vehicle types; Aggregate model year; Aggregate speed). https://www.arb.ca.gov/emfac/2014/
2. Assumes electric vehicles would replace traditional gasoline-fueled vehicles.

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Emergency Generator	27.06	diesel	10.15	2,666.01		

Assumptions

10.15	diesel	KgCO2/gallon[1]
8.91	gasoline	KgCO2/gallon[1]
1	MT = 1,000 kilograms	

APPENDIX F

Greenhouse Gas Emissions Documentation

ESA

Rancho Los Amigos
GHG Tech Report
Greenhouse Gases - Operational Emissions

Summary of Estimated Unmitigated Annual GHG Emissions (CEQA Analysis)

Source	GHG Emissions MTCO2e
Project	
Construction	
Amortized Construction[1]	212
Stationary (Emergency Generators)	237
Area	0.1
Energy - Natural Gas	363
Energy - Electricity	2,635
Waste	304
Water	816
Mobile	7,622
Total	**12,189**

Project Emissions (MTCO2e)		12,189
Significance Indicator		3,000
Exceeds Significance Indicator?	YES	

Notes:

1. Total construction-related GHG emissions amortized over 30 years, per SCAQMD guidance.

a Totals may not add up exactly due to rounding in the modeling calculations.

Source: ESA, 2017

Haul Truck Emission Calculations

Phase	Total Trucks	Total One-Way Haul Truck Trips	Avg. Daily Truck Trips (In/Out)	Hauling Days	Distance to Disposal Site
Phase H-Campus Demolition	758	1,516	18	87	20
Phase I-Campus Site Preparation	0	0	0	0	20
Phase L-Campus Soils Remediation-Export[1]	444	888	60	15	152
Phase L-Campus Soils Remediation-Import	88	176	12	15	20
Phase A-ISD Demolition	2,876	5,752	80	142	20
Phase J-Campus Grading	767	1,534	154	10	5
Phase K-Campus Landscaping	0.00	0.00	0.00	0.00	20
Phase B-ISD Site Preparation	160.00	320.00	32.00	10.00	20
Phase C-ISD Grading/Excavation	356.50	714.00	72.00	10.00	5
Phase F-ISD Utils/Street Improvements	0.00	0.00	0.00	0.00	20
Phase D-ISD Building Construction	0.00	0.00	0.00	0.00	20
Phase G-ISD Paving	0.00	0.00	0.00	0.00	20
Phase E-ISD Architectural Coatings	0.00	0.00	0.00	0.00	20

GWP		
CO2	CH4	N2O
1	25	298

EMISSION FACTORS	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5	CO2	CH4	N2O
First Construction Year	g/mile										g/mi		
2019	0.16556	4.81184	0.63384	0.01426	0.09637	0.07809	0.17446	0.03496	0.07471	0.10967	1509.87755	0.00769	0.23733
2020	0.13169	4.29215	0.51905	0.01399	0.09637	0.06249	0.15885	0.03496	0.05978	0.09474	1480.80179	0.00612	0.23276

EMISSIONS	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhaust	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhaust	Total PM2.5	CO2	CH4	N2O	CO2	CH4	N2O
Phase	lb/day										lb/day			Total lbs		
Phase H-Campus Demolition	0.131	3.819	0.503	0.011	0.076	0.062	0.138	0.028	0.059	0.087	1198.32	0.01	0.19	104253.45	0.53	16.39
Phase I-Campus Site Preparation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Phase L-Campus Soils Remediation-Export1	2.648	86.297	10.436	0.281	1.938	1.256	3.194	0.703	1.202	1.905	29772.73	0.12	4.68	446591.01	1.84	70.20
Phase L-Campus Soils Remediation-Import	0.070	2.271	0.275	0.007	0.051	0.033	0.084	0.018	0.032	0.050	783.49	0.00	0.12	11752.40	0.05	1.85
Phase A-ISD Demolition	0.465	15.140	1.831	0.049	0.340	0.220	0.560	0.123	0.211	0.334	5223.29	0.02	0.82	741706.71	3.06	116.59
Phase J-Campus Grading	0.224	7.286	0.881	0.024	0.164	0.106	0.270	0.059	0.101	0.161	2513.71	0.01	0.40	25137.07	0.10	3.95
Phase K-Campus Landscaping	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Phase B-ISD Site Preparation	0.186	6.056	0.732	0.020	0.136	0.088	0.224	0.049	0.084	0.134	2089.31	0.01	0.33	20893.15	0.09	3.28
Phase C-ISD Grading/Excavation	0.105	3.406	0.412	0.011	0.076	0.050	0.126	0.028	0.047	0.075	1175.24	0.00	0.18	11752.40	0.05	1.85
Phase F-ISD Utils/Street Improvements	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Phase D-ISD Building Construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Phase G-ISD Paving	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Phase E-ISD Architectural Coatings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00

Phase	ROG	NOX	CO	Sox	PM10 Fugitive Dust	PM10 Exhuast	Total PM10	PM2.5 Fugitive Dust	PM2.5 Exhuast	Total PM2.5	CO2	CH4	N2O	CO2	CH4	N2O
	lb/day										lb/day			Total lbs		
Phase H-Campus Demolition	0.13	3.82	0.50	0.01	0.08	0.06	0.14	0.03	0.06	0.09	1198.32	0.01	0.19	104253.45	0.53	16.39
Phase I-Campus Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase L-Campus Soils Remediation	2.72	88.57	10.71	0.29	1.99	1.29	3.28	0.72	1.23	1.96	30556.23	0.13	4.80	458343.41	1.89	72.05
Phase A-ISD Demolition	0.46	15.14	1.83	0.05	0.34	0.22	0.56	0.12	0.21	0.33	5223.29	0.02	0.82	741706.71	3.06	116.59
Phase J-Campus Grading	0.22	7.29	0.88	0.02	0.16	0.11	0.27	0.06	0.10	0.16	2513.71	0.01	0.40	25137.07	0.10	3.95
Phase K-Campus Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase B-ISD Site Preparation	0.19	6.06	0.73	0.02	0.14	0.09	0.22	0.05	0.08	0.13	2089.31	0.01	0.33	20893.15	0.09	3.28
Phase C-ISD Grading/Excavation	0.10	3.41	0.41	0.01	0.08	0.05	0.13	0.03	0.05	0.08	1175.24	0.00	0.18	11752.40	0.05	1.85
Phase F-ISD Utils/Street Improvements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase D-ISD Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase G-ISD Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase E-ISD Architectural Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
														1362086.18	5.73	214.10

CO2	CH4	N2O
Total MT		
617.838	0.003	0.097
Total $MTCO_2e$		
646.84		

1 Trip distance to disposal site

Rancho Los Amigos
Air Quality Assessment
Greenhouse Gas Assessment

Emergency Generator Emissions

updated: 6/6/2019

Conversion Factors

HP/kW	1.3410	
PM10 Fraction of Total PM	0.960	Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION
PM2.5 Fraction of Total PM	0.937	Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION
CO2 g/gal	10.21	Climate Registry, Table 13.1: https://www.theclimateregistry.org/wp-content/uploads/2014/11/2016-Climate-Registry-Default-Emission-Factors.pdf
CH4 g/gal	0.58	Climate Registry, Table 13.1: https://www.theclimateregistry.org/wp-content/uploads/2014/11/2016-Climate-Registry-Default-Emission-Factors.pdf
N2O g/gal	0.26	Climate Registry, Table 13.1: https://www.theclimateregistry.org/wp-content/uploads/2014/11/2016-Climate-Registry-Default-Emission-Factors.pdf
GWP CH4	25	IPCC AR4
GWP N2O	298	IPCC AR4
CO2e g/gal	10,302	
CO2 g/gal	10,210	
CO2/CO2e	0.9911	

Emergency Generator - ISD,Probation Building

Ratings:	2,500	kW	*(based on engineering assumptions)*
	3,353	HP	*(based on engineering assumptions; conversion from kW to hp)*
		kW	*(based on engineering assumptions)*
	-	HP	*(conversion from kW to hp)*
Load Factor:	0.74		*(based on CalEEMod Generator Set Load Factor)*
Engine Emissions Tier:	Rule 1470 Compliant		*(compliance with CARB and AQMD diesel regulations)*
Operating Hours per Unit:	2	hours/day	*(testing/maintenance)*
	50	hours/year	*(testing/maintenance, Regulatory Limit per SCAQMD Rule 1470)*

Emergency Generator - County Office Building

Ratings:	1,500	kW	*(based on engineering assumptions)*
	2,012	HP	*(based on engineering assumptions; conversion from kW to hp)*
		kW	*(based on engineering assumptions)*
	-	HP	*(conversion from kW to hp)*
Load Factor:	0.74		*(based on CalEEMod Generator Set Load Factor)*
Engine Emissions Tier:	Rule 1470 Compliant		*(compliance with CARB and AQMD diesel regulations)*
Operating Hours per Unit:	2	hours/day	*(testing/maintenance)*
	50	hours/year	*(testing/maintenance, Regulatory Limit per SCAQMD Rule 1470)*

Emergency Generator Emissions - ISD (1)

Units	Greenhouse Gases [1]	
	CO_2	CO_2e
g/kW-hr	—	—
g/HP-hr	526.17	530.91
lbs/hr	2878.22	2,904.14
lbs/day	5,756.43	5,808.29
lbs/yr	143,910.76	145,207.23
tons/yr	71.96	72.60
metric tons/yr	**65.28**	**65.86**

Emergency Generator Emissions - ISD (2)

Units	Greenhouse Gases [1]	
	CO_2	CO_2e
g/kW-hr	—	—
g/HP-hr	526.17	530.91
lbs/hr	2878.22	2,904.14
lbs/day	5,756.43	5,808.29
lbs/yr	143,910.76	145,207.23
tons/yr	71.96	72.60
metric tons/yr	**65.28**	**65.86**

Emergency Generator Emissions - Probation Building

Units	Greenhouse Gases [1]	
	CO_2	CO_2e
g/kW-hr	—	—
g/HP-hr	526.17	530.91
lbs/hr	2878.22	2,904.14
lbs/day	5,756.43	5,808.29
lbs/yr	143,910.76	145,207.23
tons/yr	71.96	72.60
metric tons/yr	**65.28**	**65.86**

Emergency Generator Emissions -County Office Building

Units	Greenhouse Gases [1]	
	CO_2	CO_2e
g/kW-hr	—	—
g/HP-hr	526.17	530.91
lbs/hr	1727.10	1742.66
lbs/day	3454.20	3485.32
lbs/yr	86355.04	87133.00
tons/yr	43.18	43.57
metric tons/yr	39.17	39.52

Total Emergency Generator Emissions

Units	Greenhouse Gases [1]	
	CO_2	CO_2e
lbs/hr	10361.75	10455.09
lbs/day	17845.2776	18006.0424
lbs/yr	518087.32	522754.672761371
tons/yr	259.04366	260.729103682116
metric tons/yr	**235.00**	**237.117812938906**

Notes:

1. Emission factors for VOC and NOX: Regulatory Limit per SCAQMD Rule 1470 (Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines).
2. Emission factors for CO, PM10, and PM2.5: Regulatory Limit per SCAQMD Rule 1470 (Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines).
3. Emission factor for SO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1. Emission Factor for SO2 is based on 15 ppm (0.0015%) S1 from the EPA Nonroad Diesel Fuel Program, and assumes complete conversion to SO2.
1. Emission factor for CO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1. Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, which is typical for off-road diesel engines.

Source: ESA 2019.

Rancho Los Amigos-Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per construction assumptions

Construction Phase - per construction assumptions

Off-road Equipment - per construction assumptions

Trips and VMT - per construction assumptions

Demolition - per construction assumptions

Grading - total of 35 acre development area

Vehicle Trips - per construction assumptions

Water And Wastewater - per construction assumptions

Solid Waste - per construction assumptions

Construction Off-road Equipment Mitigation - Assumes watering 3x per day during construction

Mobile Land Use Mitigation -

Energy Mitigation - per construction assumptions

Waste Mitigation - per construction assumptions

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	37.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	30.00	65.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	10.00	32.00

tblConstructionPhase	NumDays	10.00	34.00
tblGrading	AcresOfGrading	162.50	0.00
tblGrading	AcresOfGrading	85.00	17.50
tblGrading	AcresOfGrading	80.00	17.50
tblGrading	MaterialExported	0.00	5,333.00
tblGrading	MaterialExported	0.00	9,206.00
tblGrading	MaterialExported	0.00	160.00
tblGrading	MaterialImported	0.00	1,055.00
tblGrading	MaterialImported	0.00	4,278.00
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSolidWaste	SolidWasteGenerationRate	604.50	722.70
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	643.00	0.00
tblTripsAndVMT	HaulingTripNumber	799.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,437.00	0.00

tblTripsAndVMT	HaulingTripNumber	1,151.00	0.00
tblTripsAndVMT	HaulingTripNumber	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	535.00	0.00
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45
tblWater	IndoorWaterUseRate	129,128,795.81	42,230,290.00
tblWater	OutdoorWaterUseRate	79,143,455.50	0.00
tblWater	OutdoorWaterUseRate	0.00	6,125,999.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1362	1.3697	0.8919	1.5500e-003	0.0593	0.0691	0.1284	9.7200e-003	0.0642	0.0739	0.0000	138.8496	138.8496	0.0378	0.0000	139.7946
2020	1.5214	14.7611	10.6525	0.0243	2.9121	0.6517	3.5637	1.3046	0.6037	1.9084	0.0000	2,186.9999	2,186.9999	0.4198	0.0000	2,197.4958
2021	1.2824	11.0875	10.9010	0.0327	1.4838	0.3525	1.8363	0.4007	0.3304	0.7311	0.0000	2,996.6580	2,996.6580	0.3009	0.0000	3,004.1795
2022	0.4661	1.1105	1.2984	3.9800e-003	0.2031	0.0326	0.2357	0.0547	0.0310	0.0857	0.0000	364.4136	364.4136	0.0296	0.0000	365.1536
Maximum	**1.5214**	**14.7611**	**10.9010**	**0.0327**	**2.9121**	**0.6517**	**3.5637**	**1.3046**	**0.6037**	**1.9084**	**0.0000**	**2,996.6580**	**2,996.6580**	**0.4198**	**0.0000**	**3,004.1795**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0208	0.0795	0.9508	1.5500e-003	0.0271	2.4300e-003	0.0295	4.8400e-003	2.4200e-003	7.2700e-003	0.0000	138.8494	138.8494	0.0378	0.0000	139.7944
2020	0.4953	3.0401	10.9320	0.0243	1.5185	0.0451	1.5636	0.6121	0.0443	0.6564	0.0000	2,186.9984	2,186.9984	0.4198	0.0000	2,197.4943
2021	0.7970	5.6876	11.3066	0.0327	1.4838	0.0517	1.5355	0.4007	0.0505	0.4512	0.0000	2,996.6571	2,996.6571	0.3009	0.0000	3,004.1786
2022	0.4188	0.6281	1.3387	3.9800e-003	0.2031	5.6300e-003	0.2087	0.0547	5.4800e-003	0.0602	0.0000	364.4135	364.4135	0.0296	0.0000	365.1535
Maximum	**0.7970**	**5.6876**	**11.3066**	**0.0327**	**1.5185**	**0.0517**	**1.5636**	**0.6121**	**0.0505**	**0.6564**	**0.0000**	**2,996.6571**	**2,996.6571**	**0.4198**	**0.0000**	**3,004.1786**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**49.16**	**66.69**	**-3.30**	**0.00**	**30.61**	**90.52**	**42.10**	**39.41**	**90.02**	**58.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2019	12-31-2019	1.4997	0.1001
2	1-1-2020	3-31-2020	4.8930	0.3274
3	4-1-2020	6-30-2020	4.1800	0.3179
4	7-1-2020	9-30-2020	3.0390	1.0337
5	10-1-2020	12-31-2020	4.1045	1.8110
6	1-1-2021	3-31-2021	3.6959	1.6339
7	4-1-2021	6-30-2021	3.2914	1.6101
8	7-1-2021	9-30-2021	2.6476	1.5686
9	10-1-2021	12-31-2021	2.6371	1.5852
10	1-1-2022	3-31-2022	1.5747	1.0370
11	4-1-2022	6-30-2022	0.0446	0.0342
		Highest	4.8930	1.8110

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	3,716.9638	3,716.9638	0.1455	0.0353	3,731.1153
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	146.7016	0.0000	146.7016	8.6698	0.0000	363.4469
Water						0.0000	0.0000		0.0000	0.0000	13.3977	196.8891	210.2868	1.3842	0.0342	255.0757
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**160.0993**	**11,525.6580**	**11,685.7573**	**10.6082**	**0.0695**	**11,971.6604**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0347	0.3157	0.2652	1.8900e-003		0.0240	0.0240		0.0240	0.0240	0.0000	3,651.9520	3,651.9520	0.1432	0.0346	3,665.8298
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	51.3456	0.0000	51.3456	3.0344	0.0000	127.2064
Water						0.0000	0.0000		0.0000	0.0000	13.3977	196.8891	210.2868	1.3842	0.0342	255.0757

Total	4.7821	10.2174	24.0069	0.0843	6.6516	0.0939	6.7455	1.7830	0.0892	1.8722	64.7433	11,460.6462	11,525.3895	4.9705	0.0687	11,670.1343

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.04	0.16	0.06	0.12	0.00	1.27	0.02	0.00	1.34	0.06	59.56	0.56	1.37	53.14	1.04	2.52

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase H-Campus Demolition	Demolition	10/1/2019	1/29/2020	5	87	
2	Phase I-Campus Site Preparation	Site Preparation	1/30/2020	3/15/2020	5	32	
3	Phase L-Campus Soils Remediation	Grading	1/30/2020	4/29/2020	5	65	
4	Phase A-ISD Demolition	Demolition	2/1/2020	5/11/2020	5	71	
5	Phase J-Campus Grading	Grading	3/16/2020	4/30/2020	5	34	
6	Phase K-Campus Landscaping	Paving	5/1/2020	6/15/2020	5	32	
7	Phase B-ISD Site Preparation	Site Preparation	5/12/2020	6/26/2020	5	34	
8	Phase C-ISD Grading/Excavation	Grading	6/27/2020	8/11/2020	5	32	
9	Phase F-ISD Utils/Street Improvements	Trenching	8/12/2020	5/14/2021	5	198	
10	Phase D-ISD Building Construction	Building Construction	8/12/2020	2/13/2022	5	393	
11	Phase G-ISD Paving	Paving	6/1/2021	7/6/2021	5	26	
12	Phase E-ISD Architectural Coatings	Architectural Coating	2/14/2022	4/5/2022	5	37	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 12.64

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Phase H-Campus Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase H-Campus Demolition	Excavators	3	8.00	158	0.38
Phase H-Campus Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase H-Campus Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase I-Campus Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase I-Campus Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase L-Campus Soils Remediation	Excavators	2	8.00	158	0.38
Phase L-Campus Soils Remediation	Graders	1	8.00	187	0.41
Phase L-Campus Soils Remediation	Rubber Tired Dozers	1	8.00	247	0.40
Phase L-Campus Soils Remediation	Scrapers	2	8.00	367	0.48
Phase L-Campus Soils Remediation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A-ISD Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A-ISD Demolition	Excavators	3	8.00	158	0.38
Phase A-ISD Demolition	Other Construction Equipment	1	8.00	172	0.42
Phase A-ISD Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase J-Campus Grading	Excavators	2	8.00	158	0.38
Phase J-Campus Grading	Graders	1	8.00	187	0.41
Phase J-Campus Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase J-Campus Grading	Scrapers	2	8.00	367	0.48
Phase J-Campus Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Forklifts	2	8.00	89	0.20
Phase K-Campus Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Phase K-Campus Landscaping	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase K-Campus Landscaping	Trenchers	2	8.00	78	0.50
Phase B-ISD Site Preparation	Rubber Tired Dozers	8	8.00	247	0.40
Phase B-ISD Site Preparation	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Phase C-ISD Grading/Excavation	Excavators	2	8.00	158	0.38
Phase C-ISD Grading/Excavation	Graders	1	8.00	187	0.41
Phase C-ISD Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase C-ISD Grading/Excavation	Scrapers	2	8.00	367	0.48

Phase C-ISD Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase F-ISD Utils/Street Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Phase F-ISD Utils/Street Improvements	Excavators	3	8.00	158	0.38
Phase F-ISD Utils/Street Improvements	Rubber Tired Dozers	2	8.00	247	0.40
Phase D-ISD Building Construction	Cranes	2	7.00	231	0.29
Phase D-ISD Building Construction	Forklifts	6	8.00	89	0.20
Phase D-ISD Building Construction	Generator Sets	2	8.00	84	0.74
Phase D-ISD Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Phase D-ISD Building Construction	Welders	2	8.00	46	0.45
Phase G-ISD Paving	Pavers	2	8.00	130	0.42
Phase G-ISD Paving	Paving Equipment	2	8.00	132	0.36
Phase G-ISD Paving	Rollers	2	8.00	80	0.38
Phase E-ISD Architectural Coatings	Air Compressors	4	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase H-Campus Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase I-Campus Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase L-Campus Soils Remediation	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A-ISD Demolition	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase J-Campus Grading	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase K-Campus Landscaping	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase B-ISD Site Preparation	18	45.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase C-ISD Grading/Excavation	8	20.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Phase F-ISD Utils/Street	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase D-ISD Building Construction	18	830.00	349.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase G-ISD Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase E-ISD Architectural Coatings	4	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Phase H-Campus Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0528	0.0000	0.0528	7.9900e-003	0.0000	7.9900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1333	1.3672	0.8649	1.4800e-003		0.0691	0.0691		0.0641	0.0641	0.0000	132.5926	132.5926	0.0376	0.0000	133.5323
Total	**0.1333**	**1.3672**	**0.8649**	**1.4800e-003**	**0.0528**	**0.0691**	**0.1218**	**7.9900e-003**	**0.0641**	**0.0721**	**0.0000**	**132.5926**	**132.5926**	**0.0376**	**0.0000**	**133.5323**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	2.4800e-003	0.0270	7.0000e-005	6.5100e-003	6.0000e-005	6.5700e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	6.2569	6.2569	2.2000e-004	0.0000	6.2623
Total	**2.9800e-003**	**2.4800e-003**	**0.0270**	**7.0000e-005**	**6.5100e-003**	**6.0000e-005**	**6.5700e-003**	**1.7300e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**6.2569**	**6.2569**	**2.2000e-004**	**0.0000**	**6.2623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0206	0.0000	0.0206	3.1200e-003	0.0000	3.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.0770	0.9238	1.4800e-003		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	132.5925	132.5925	0.0376	0.0000	133.5321
Total	**0.0178**	**0.0770**	**0.9238**	**1.4800e-003**	**0.0206**	**2.3700e-003**	**0.0230**	**3.1200e-003**	**2.3700e-003**	**5.4900e-003**	**0.0000**	**132.5925**	**132.5925**	**0.0376**	**0.0000**	**133.5321**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	2.4800e-003	0.0270	7.0000e-005	6.5100e-003	6.0000e-005	6.5700e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	6.2569	6.2569	2.2000e-004	0.0000	6.2623
Total	**2.9800e-003**	**2.4800e-003**	**0.0270**	**7.0000e-005**	**6.5100e-003**	**6.0000e-005**	**6.5700e-003**	**1.7300e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**6.2569**	**6.2569**	**2.2000e-004**	**0.0000**	**6.2623**

3.2 Phase H-Campus Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.0168	0.0000	0.0168	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0400	0.4036	0.2717	4.7000e-004		0.0203	0.0203		0.0189	0.0189	0.0000	41.4024	41.4024	0.0119	0.0000	41.7005
Total	**0.0400**	**0.4036**	**0.2717**	**4.7000e-004**	**0.0168**	**0.0203**	**0.0371**	**2.5400e-003**	**0.0189**	**0.0214**	**0.0000**	**41.4024**	**41.4024**	**0.0119**	**0.0000**	**41.7005**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	**8.7000e-004**	**7.0000e-004**	**7.7800e-003**	**2.0000e-005**	**2.0700e-003**	**2.0000e-005**	**2.0900e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.9304**	**1.9304**	**6.0000e-005**	**0.0000**	**1.9319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.5500e-003	0.0000	6.5500e-003	9.9000e-004	0.0000	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6600e-003	0.0245	0.2939	4.7000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	41.4024	41.4024	0.0119	0.0000	41.7004
Total	**5.6600e-003**	**0.0245**	**0.2939**	**4.7000e-004**	**6.5500e-003**	**7.5000e-004**	**7.3000e-003**	**9.9000e-004**	**7.5000e-004**	**1.7400e-003**	**0.0000**	**41.4024**	**41.4024**	**0.0119**	**0.0000**	**41.7004**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	**8.7000e-004**	**7.0000e-004**	**7.7800e-003**	**2.0000e-005**	**2.0700e-003**	**2.0000e-005**	**2.0900e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.9304**	**1.9304**	**6.0000e-005**	**0.0000**	**1.9319**

3.3 Phase I-Campus Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7708	0.0000	0.7708	0.4237	0.0000	0.4237	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.7874	0.8936	1.5900e-003		0.0923	0.0923		0.0850	0.0850	0.0000	139.7271	139.7271	0.0452	0.0000	140.8569
Total	**0.1717**	**1.7874**	**0.8936**	**1.5900e-003**	**0.7708**	**0.0923**	**0.8632**	**0.4237**	**0.0850**	**0.5087**	**0.0000**	**139.7271**	**139.7271**	**0.0452**	**0.0000**	**140.8569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3200e-003	2.6800e-003	0.0296	8.0000e-005	7.8900e-003	7.0000e-005	7.9600e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.3537	7.3537	2.3000e-004	0.0000	7.3595
Total	**3.3200e-003**	**2.6800e-003**	**0.0296**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9600e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.3537**	**7.3537**	**2.3000e-004**	**0.0000**	**7.3595**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3006	0.0000	0.3006	0.1653	0.0000	0.1653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.0843	0.8654	1.5900e-003		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	139.7270	139.7270	0.0452	0.0000	140.8567
Total	**0.0195**	**0.0843**	**0.8654**	**1.5900e-003**	**0.3006**	**2.5900e-003**	**0.3032**	**0.1653**	**2.5900e-003**	**0.1678**	**0.0000**	**139.7270**	**139.7270**	**0.0452**	**0.0000**	**140.8567**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3200e-003	2.6800e-003	0.0296	8.0000e-005	7.8900e-003	7.0000e-005	7.9600e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.3537	7.3537	2.3000e-004	0.0000	7.3595

Total	**3.3200e-003**	**2.6800e-003**	**0.0296**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9600e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.3537**	**7.3537**	**2.3000e-004**	**0.0000**	**7.3595**

3.4 Phase L-Campus Soils Remediation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1961	0.0000	0.1961	0.1076	0.0000	0.1076	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1446	1.6314	1.0386	2.0200e-003		0.0707	0.0707		0.0650	0.0650	0.0000	177.0740	177.0740	0.0573	0.0000	178.5057
Total	**0.1446**	**1.6314**	**1.0386**	**2.0200e-003**	**0.1961**	**0.0707**	**0.2667**	**0.1076**	**0.0650**	**0.1726**	**0.0000**	**177.0740**	**177.0740**	**0.0573**	**0.0000**	**178.5057**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	2.4200e-003	0.0268	7.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.6388	6.6388	2.1000e-004	0.0000	6.6440
Total	**3.0000e-003**	**2.4200e-003**	**0.0268**	**7.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**6.6388**	**6.6388**	**2.1000e-004**	**0.0000**	**6.6440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0765	0.0000	0.0765	0.0420	0.0000	0.0420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.1073	1.0725	2.0200e-003		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003	0.0000	177.0737	177.0737	0.0573	0.0000	178.5055
Total	**0.0248**	**0.1073**	**1.0725**	**2.0200e-003**	**0.0765**	**3.3000e-003**	**0.0798**	**0.0420**	**3.3000e-003**	**0.0453**	**0.0000**	**177.0737**	**177.0737**	**0.0573**	**0.0000**	**178.5055**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	2.4200e-003	0.0268	7.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.6388	6.6388	2.1000e-004	0.0000	6.6440
Total	**3.0000e-003**	**2.4200e-003**	**0.0268**	**7.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**6.6388**	**6.6388**	**2.1000e-004**	**0.0000**	**6.6440**

3.5 Phase A-ISD Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.2637	0.0000	0.2637	0.0399	0.0000	0.0399	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1351	1.3646	0.9186	1.6000e-003		0.0687	0.0687		0.0638	0.0638	0.0000	139.9796	139.9796	0.0403	0.0000	140.9873
Total	**0.1351**	**1.3646**	**0.9186**	**1.6000e-003**	**0.2637**	**0.0687**	**0.3324**	**0.0399**	**0.0638**	**0.1037**	**0.0000**	**139.9796**	**139.9796**	**0.0403**	**0.0000**	**140.9873**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9500e-003	2.3800e-003	0.0263	7.0000e-005	7.0000e-003	6.0000e-005	7.0600e-003	1.8600e-003	6.0000e-005	1.9100e-003	0.0000	6.5264	6.5264	2.1000e-004	0.0000	6.5316
Total	**2.9500e-003**	**2.3800e-003**	**0.0263**	**7.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8600e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**6.5264**	**6.5264**	**2.1000e-004**	**0.0000**	**6.5316**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1029	0.0000	0.1029	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.0829	0.9938	1.6000e-003		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	139.9794	139.9794	0.0403	0.0000	140.9871
Total	**0.0191**	**0.0829**	**0.9938**	**1.6000e-003**	**0.1029**	**2.5500e-003**	**0.1054**	**0.0156**	**2.5500e-003**	**0.0181**	**0.0000**	**139.9794**	**139.9794**	**0.0403**	**0.0000**	**140.9871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9500e-003	2.3800e-003	0.0263	7.0000e-005	7.0000e-003	6.0000e-005	7.0600e-003	1.8600e-003	6.0000e-005	1.9100e-003	0.0000	6.5264	6.5264	2.1000e-004	0.0000	6.5316
Total	**2.9500e-003**	**2.3800e-003**	**0.0263**	**7.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8600e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**6.5264**	**6.5264**	**2.1000e-004**	**0.0000**	**6.5316**

3.6 Phase J-Campus Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1122	0.0000	0.1122	0.0574	0.0000	0.0574	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0757	0.8534	0.5433	1.0500e-003		0.0370	0.0370		0.0340	0.0340	0.0000	92.6233	92.6233	0.0300	0.0000	93.3722
Total	**0.0757**	**0.8534**	**0.5433**	**1.0500e-003**	**0.1122**	**0.0370**	**0.1491**	**0.0574**	**0.0340**	**0.0914**	**0.0000**	**92.6233**	**92.6233**	**0.0300**	**0.0000**	**93.3722**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753
Total	**1.5700e-003**	**1.2700e-003**	**0.0140**	**4.0000e-005**	**3.7300e-003**	**3.0000e-005**	**3.7600e-003**	**9.9000e-004**	**3.0000e-005**	**1.0200e-003**	**0.0000**	**3.4726**	**3.4726**	**1.1000e-004**	**0.0000**	**3.4753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0438	0.0000	0.0438	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0130	0.0561	0.5610	1.0500e-003		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	92.6232	92.6232	0.0300	0.0000	93.3721
Total	**0.0130**	**0.0561**	**0.5610**	**1.0500e-003**	**0.0438**	**1.7300e-003**	**0.0455**	**0.0224**	**1.7300e-003**	**0.0241**	**0.0000**	**92.6232**	**92.6232**	**0.0300**	**0.0000**	**93.3721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753

Total	**1.5700e-003**	**1.2700e-003**	**0.0140**	**4.0000e-005**	**3.7300e-003**	**3.0000e-005**	**3.7600e-003**	**9.9000e-004**	**3.0000e-005**	**1.0200e-003**	**0.0000**	**3.4726**	**3.4726**	**1.1000e-004**	**0.0000**	**3.4753**

3.7 Phase K-Campus Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0273	0.2644	0.2396	3.2000e-004		0.0179	0.0179		0.0165	0.0165	0.0000	28.3268	28.3268	9.1600e-003	0.0000	28.5559
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0339**	**0.2644**	**0.2396**	**3.2000e-004**		**0.0179**	**0.0179**		**0.0165**	**0.0165**	**0.0000**	**28.3268**	**28.3268**	**9.1600e-003**	**0.0000**	**28.5559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.0508	0.2438	3.2000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	28.3268	28.3268	9.1600e-003	0.0000	28.5558
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0114**	**0.0508**	**0.2438**	**3.2000e-004**		**5.3000e-004**	**5.3000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**28.3268**	**28.3268**	**9.1600e-003**	**0.0000**	**28.5558**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

3.8 Phase B-ISD Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.8190	0.0000	0.8190	0.4502	0.0000	0.4502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1824	1.8991	0.9495	1.6900e-003		0.0981	0.0981		0.0903	0.0903	0.0000	148.4601	148.4601	0.0480	0.0000	149.6605
Total	**0.1824**	**1.8991**	**0.9495**	**1.6900e-003**	**0.8190**	**0.0981**	**0.9171**	**0.4502**	**0.0903**	**0.5405**	**0.0000**	**148.4601**	**148.4601**	**0.0480**	**0.0000**	**149.6605**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3194	0.0000	0.3194	0.1756	0.0000	0.1756	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0896	0.9195	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.4599	148.4599	0.0480	0.0000	149.6603
Total	**0.0207**	**0.0896**	**0.9195**	**1.6900e-003**	**0.3194**	**2.7600e-003**	**0.3222**	**0.1756**	**2.7600e-003**	**0.1783**	**0.0000**	**148.4599**	**148.4599**	**0.0480**	**0.0000**	**149.6603**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

3.9 Phase C-ISD Grading/Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1059	0.0000	0.1059	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0712	0.8032	0.5113	9.9000e-004		0.0348	0.0348		0.0320	0.0320	0.0000	87.1749	87.1749	0.0282	0.0000	87.8797
Total	**0.0712**	**0.8032**	**0.5113**	**9.9000e-004**	**0.1059**	**0.0348**	**0.1407**	**0.0540**	**0.0320**	**0.0860**	**0.0000**	**87.1749**	**87.1749**	**0.0282**	**0.0000**	**87.8797**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709
Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0413	0.0000	0.0413	0.0211	0.0000	0.0211	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0528	0.5280	9.9000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	87.1748	87.1748	0.0282	0.0000	87.8796
Total	**0.0122**	**0.0528**	**0.5280**	**9.9000e-004**	**0.0413**	**1.6200e-003**	**0.0429**	**0.0211**	**1.6200e-003**	**0.0227**	**0.0000**	**87.1748**	**87.1748**	**0.0282**	**0.0000**	**87.8796**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1900e-003	0.0132	4.0000e-005	3.5100e-003	3.0000e-005	3.5400e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2683	3.2683	1.0000e-004	0.0000	3.2709

Total	**1.4800e-003**	**1.1900e-003**	**0.0132**	**4.0000e-005**	**3.5100e-003**	**3.0000e-005**	**3.5400e-003**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**0.0000**	**3.2683**	**3.2683**	**1.0000e-004**	**0.0000**	**3.2709**

3.10 Phase F-ISD Utils/Street Improvements - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1689	1.6933	1.1094	1.9800e-003		0.0846	0.0846		0.0786	0.0786	0.0000	173.3929	173.3929	0.0490	0.0000	174.6166
Total	**0.1689**	**1.6933**	**1.1094**	**1.9800e-003**		**0.0846**	**0.0846**		**0.0786**	**0.0786**	**0.0000**	**173.3929**	**173.3929**	**0.0490**	**0.0000**	**174.6166**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0236	0.1022	1.1873	1.9800e-003		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	173.3927	173.3927	0.0490	0.0000	174.6164
Total	**0.0236**	**0.1022**	**1.1873**	**1.9800e-003**		**3.1400e-003**	**3.1400e-003**		**3.1400e-003**	**3.1400e-003**	**0.0000**	**173.3927**	**173.3927**	**0.0490**	**0.0000**	**174.6164**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5300e-003	2.8500e-003	0.0315	9.0000e-005	8.3800e-003	7.0000e-005	8.4500e-003	2.2300e-003	7.0000e-005	2.2900e-003	0.0000	7.8133	7.8133	2.5000e-004	0.0000	7.8195
Total	**3.5300e-003**	**2.8500e-003**	**0.0315**	**9.0000e-005**	**8.3800e-003**	**7.0000e-005**	**8.4500e-003**	**2.2300e-003**	**7.0000e-005**	**2.2900e-003**	**0.0000**	**7.8133**	**7.8133**	**2.5000e-004**	**0.0000**	**7.8195**

3.10 Phase F-ISD Utils/Street Improvements - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.1519	1.5092	1.0351	1.8600e-003		0.0745	0.0745		0.0692	0.0692	0.0000	163.2038	163.2038	0.0459	0.0000	164.3522
Total	**0.1519**	**1.5092**	**1.0351**	**1.8600e-003**		**0.0745**	**0.0745**		**0.0692**	**0.0692**	**0.0000**	**163.2038**	**163.2038**	**0.0459**	**0.0000**	**164.3522**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	2.4100e-003	0.0272	8.0000e-005	7.8900e-003	7.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.1202	7.1202	2.1000e-004	0.0000	7.1254
Total	**3.1000e-003**	**2.4100e-003**	**0.0272**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.1202**	**7.1202**	**2.1000e-004**	**0.0000**	**7.1254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0222	0.0962	1.1174	1.8600e-003		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	163.2036	163.2036	0.0459	0.0000	164.3520
Total	**0.0222**	**0.0962**	**1.1174**	**1.8600e-003**		**2.9600e-003**	**2.9600e-003**		**2.9600e-003**	**2.9600e-003**	**0.0000**	**163.2036**	**163.2036**	**0.0459**	**0.0000**	**164.3520**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	2.4100e-003	0.0272	8.0000e-005	7.8900e-003	7.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1600e-003	0.0000	7.1202	7.1202	2.1000e-004	0.0000	7.1254
Total	**3.1000e-003**	**2.4100e-003**	**0.0272**	**8.0000e-005**	**7.8900e-003**	**7.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1600e-003**	**0.0000**	**7.1202**	**7.1202**	**2.1000e-004**	**0.0000**	**7.1254**

3.11 Phase D-ISD Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2162	1.9570	1.7186	2.7500e-003		0.1139	0.1139		0.1071	0.1071	0.0000	236.2422	236.2422	0.0576	0.0000	237.6831
Total	**0.2162**	**1.9570**	**1.7186**	**2.7500e-003**		**0.1139**	**0.1139**		**0.1071**	**0.1071**	**0.0000**	**236.2422**	**236.2422**	**0.0576**	**0.0000**	**237.6831**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	1.9288	0.5221	4.5700e-003	0.1121	8.9700e-003	0.1211	0.0324	8.5800e-003	0.0409	0.0000	442.1738	442.1738	0.0281	0.0000	442.8762
Worker	0.1954	0.1576	1.7424	4.7900e-003	0.4639	3.9600e-003	0.4678	0.1232	3.6400e-003	0.1268	0.0000	432.3377	432.3377	0.0136	0.0000	432.6783
Total	**0.2600**	**2.0864**	**2.2646**	**9.3600e-003**	**0.5760**	**0.0129**	**0.5889**	**0.1556**	**0.0122**	**0.1678**	**0.0000**	**874.5115**	**874.5115**	**0.0417**	**0.0000**	**875.5545**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.2858	1.8085	2.7500e-003		0.0127	0.0127		0.0127	0.0127	0.0000	236.2419	236.2419	0.0576	0.0000	237.6828
Total	**0.0639**	**0.2858**	**1.8085**	**2.7500e-003**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**236.2419**	**236.2419**	**0.0576**	**0.0000**	**237.6828**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	1.9288	0.5221	4.5700e-003	0.1121	8.9700e-003	0.1211	0.0324	8.5800e-003	0.0409	0.0000	442.1738	442.1738	0.0281	0.0000	442.8762
Worker	0.1954	0.1576	1.7424	4.7900e-003	0.4639	3.9600e-003	0.4678	0.1232	3.6400e-003	0.1268	0.0000	432.3377	432.3377	0.0136	0.0000	432.6783

Total	**0.2600**	**2.0864**	**2.2646**	**9.3600e-003**	**0.5760**	**0.0129**	**0.5889**	**0.1556**	**0.0122**	**0.1678**	**0.0000**	**874.5115**	**874.5115**	**0.0417**	**0.0000**	**875.5545**

3.11 Phase D-ISD Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4961	4.5498	4.3261	7.0300e-003		0.2502	0.2502		0.2352	0.2352	0.0000	604.5733	604.5733	0.1459	0.0000	608.2197
Total	**0.4961**	**4.5498**	**4.3261**	**7.0300e-003**		**0.2502**	**0.2502**		**0.2352**	**0.2352**	**0.0000**	**604.5733**	**604.5733**	**0.1459**	**0.0000**	**608.2197**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1414	4.4948	1.2186	0.0116	0.2869	9.1600e-003	0.2961	0.0828	8.7600e-003	0.0916	0.0000	1,122.6563	1,122.6563	0.0689	0.0000	1,124.3779
Worker	0.4661	0.3628	4.0960	0.0119	1.1869	9.7800e-003	1.1967	0.3153	9.0100e-003	0.3243	0.0000	1,071.1455	1,071.1455	0.0315	0.0000	1,071.9335
Total	**0.6075**	**4.8576**	**5.3146**	**0.0234**	**1.4738**	**0.0189**	**1.4928**	**0.3981**	**0.0178**	**0.4158**	**0.0000**	**2,193.8018**	**2,193.8018**	**0.1004**	**0.0000**	**2,196.3114**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1531	0.7150	4.6151	7.0300e-003		0.0292	0.0292		0.0292	0.0292	0.0000	604.5726	604.5726	0.1459	0.0000	608.2190
Total	**0.1531**	**0.7150**	**4.6151**	**7.0300e-003**		**0.0292**	**0.0292**		**0.0292**	**0.0292**	**0.0000**	**604.5726**	**604.5726**	**0.1459**	**0.0000**	**608.2190**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1414	4.4948	1.2186	0.0116	0.2869	9.1600e-003	0.2961	0.0828	8.7600e-003	0.0916	0.0000	1,122.6563	1,122.6563	0.0689	0.0000	1,124.3779
Worker	0.4661	0.3628	4.0960	0.0119	1.1869	9.7800e-003	1.1967	0.3153	9.0100e-003	0.3243	0.0000	1,071.1455	1,071.1455	0.0315	0.0000	1,071.9335
Total	**0.6075**	**4.8576**	**5.3146**	**0.0234**	**1.4738**	**0.0189**	**1.4928**	**0.3981**	**0.0178**	**0.4158**	**0.0000**	**2,193.8018**	**2,193.8018**	**0.1004**	**0.0000**	**2,196.3114**

3.11 Phase D-ISD Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.0512	0.4685	0.4909	8.1000e-004		0.0243	0.0243		0.0228	0.0228	0.0000	69.5176	69.5176	0.0167	0.0000	69.9339
Total	**0.0512**	**0.4685**	**0.4909**	**8.1000e-004**		**0.0243**	**0.0243**		**0.0228**	**0.0228**	**0.0000**	**69.5176**	**69.5176**	**0.0167**	**0.0000**	**69.9339**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.4908	0.1325	1.3200e-003	0.0330	9.2000e-004	0.0339	9.5200e-003	8.8000e-004	0.0104	0.0000	127.9076	127.9076	7.6400e-003	0.0000	128.0986
Worker	0.0502	0.0377	0.4338	1.3100e-003	0.1364	1.0900e-003	0.1375	0.0362	1.0000e-003	0.0372	0.0000	118.7923	118.7923	3.2700e-003	0.0000	118.8741
Total	**0.0655**	**0.5285**	**0.5663**	**2.6300e-003**	**0.1694**	**2.0100e-003**	**0.1714**	**0.0458**	**1.8800e-003**	**0.0476**	**0.0000**	**246.6998**	**246.6998**	**0.0109**	**0.0000**	**246.9726**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0168	0.0808	0.5298	8.1000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	69.5175	69.5175	0.0167	0.0000	69.9339
Total	**0.0168**	**0.0808**	**0.5298**	**8.1000e-004**		**3.0500e-003**	**3.0500e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**69.5175**	**69.5175**	**0.0167**	**0.0000**	**69.9339**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.4908	0.1325	1.3200e-003	0.0330	9.2000e-004	0.0339	9.5200e-003	8.8000e-004	0.0104	0.0000	127.9076	127.9076	7.6400e-003	0.0000	128.0986
Worker	0.0502	0.0377	0.4338	1.3100e-003	0.1364	1.0900e-003	0.1375	0.0362	1.0000e-003	0.0372	0.0000	118.7923	118.7923	3.2700e-003	0.0000	118.8741
Total	**0.0655**	**0.5285**	**0.5663**	**2.6300e-003**	**0.1694**	**2.0100e-003**	**0.1714**	**0.0458**	**1.8800e-003**	**0.0476**	**0.0000**	**246.6998**	**246.6998**	**0.0109**	**0.0000**	**246.9726**

3.12 Phase G-ISD Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0163	0.1680	0.1905	3.0000e-004		8.8100e-003	8.8100e-003		8.1100e-003	8.1100e-003	0.0000	26.0305	26.0305	8.4200e-003	0.0000	26.2410
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0229**	**0.1680**	**0.1905**	**3.0000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1100e-003**	**8.1100e-003**	**0.0000**	**26.0305**	**26.0305**	**8.4200e-003**	**0.0000**	**26.2410**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.5000e-004	7.3700e-003	2.0000e-005	2.1400e-003	2.0000e-005	2.1500e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.9284	1.9284	6.0000e-005	0.0000	1.9298
Total	**8.4000e-004**	**6.5000e-004**	**7.3700e-003**	**2.0000e-005**	**2.1400e-003**	**2.0000e-005**	**2.1500e-003**	**5.7000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**1.9284**	**1.9284**	**6.0000e-005**	**0.0000**	**1.9298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6500e-003	0.0158	0.2248	3.0000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	26.0305	26.0305	8.4200e-003	0.0000	26.2410
Paving	6.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0102**	**0.0158**	**0.2248**	**3.0000e-004**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**26.0305**	**26.0305**	**8.4200e-003**	**0.0000**	**26.2410**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	6.5000e-004	7.3700e-003	2.0000e-005	2.1400e-003	2.0000e-005	2.1500e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.9284	1.9284	6.0000e-005	0.0000	1.9298

Total	**8.4000e-004**	**6.5000e-004**	**7.3700e-003**	**2.0000e-005**	**2.1400e-003**	**2.0000e-005**	**2.1500e-003**	**5.7000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**1.9284**	**1.9284**	**6.0000e-005**	**0.0000**	**1.9298**

3.13 Phase E-ISD Architectural Coatings - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.1042	0.1342	2.2000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	18.8941	18.8941	1.2300e-003	0.0000	18.9248
Total	**0.3370**	**0.1042**	**0.1342**	**2.2000e-004**		**6.0500e-003**	**6.0500e-003**		**6.0500e-003**	**6.0500e-003**	**0.0000**	**18.8941**	**18.8941**	**1.2300e-003**	**0.0000**	**18.9248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	9.2900e-003	0.1070	3.2000e-004	0.0337	2.7000e-004	0.0339	8.9400e-003	2.5000e-004	9.1900e-003	0.0000	29.3021	29.3021	8.1000e-004	0.0000	29.3223
Total	**0.0124**	**9.2900e-003**	**0.1070**	**3.2000e-004**	**0.0337**	**2.7000e-004**	**0.0339**	**8.9400e-003**	**2.5000e-004**	**9.1900e-003**	**0.0000**	**29.3021**	**29.3021**	**8.1000e-004**	**0.0000**	**29.3223**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	9.5300e-003	0.1356	2.2000e-004		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	18.8941	18.8941	1.2300e-003	0.0000	18.9248
Total	**0.3241**	**9.5300e-003**	**0.1356**	**2.2000e-004**		**2.9000e-004**	**2.9000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**18.8941**	**18.8941**	**1.2300e-003**	**0.0000**	**18.9248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	9.2900e-003	0.1070	3.2000e-004	0.0337	2.7000e-004	0.0339	8.9400e-003	2.5000e-004	9.1900e-003	0.0000	29.3021	29.3021	8.1000e-004	0.0000	29.3223
Total	**0.0124**	**9.2900e-003**	**0.1070**	**3.2000e-004**	**0.0337**	**2.7000e-004**	**0.0339**	**8.9400e-003**	**2.5000e-004**	**9.1900e-003**	**0.0000**	**29.3021**	**29.3021**	**8.1000e-004**	**0.0000**	**29.3223**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Unmitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,308.2437	3,308.2437	0.1366	0.0283	3,320.0790
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,355.8776	3,355.8776	0.1386	0.0287	3,367.8834
NaturalGas Mitigated	0.0347	0.3157	0.2652	1.8900e-003		0.0240	0.0240		0.0240	0.0240	0.0000	343.7083	343.7083	6.5900e-003	6.3000e-003	345.7508
NaturalGas Unmitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815
Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.6548e+006	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	88.3066	88.3066	1.6900e-003	1.6200e-003	88.8314
Government Office Building	1.66471e+006	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003	0.0000	88.8354	88.8354	1.7000e-003	1.6300e-003	89.3633
Government Office Building	3.12133e+006	0.0168	0.1530	0.1285	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.5663	166.5663	3.1900e-003	3.0500e-003	167.5561
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0347**	**0.3157**	**0.2652**	**1.9000e-003**		**0.0240**	**0.0240**		**0.0240**	**0.0240**	**0.0000**	**343.7083**	**343.7083**	**6.5800e-003**	**6.3000e-003**	**345.7508**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	691.1950	0.0285	5.9000e-003	693.6678
Government Office Building	2.18232e+006	695.3339	0.0287	5.9400e-003	697.8215
Government Office Building	4.09185e+006	1,303.7511	0.0538	0.0111	1,308.4153
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	535.7912	0.0221	4.5800e-003	537.7081
Unenclosed Parking with Elevator	407400	129.8064	5.3600e-003	1.1100e-003	130.2708
Total		**3,355.8776**	**0.1386**	**0.0287**	**3,367.8834**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.13092e+006	678.9568	0.0280	5.8000e-003	681.3858
Government Office Building	2.14368e+006	683.0224	0.0282	5.8300e-003	685.4659
Government Office Building	4.0194e+006	1,280.6670	0.0529	0.0109	1,285.2486
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	535.7912	0.0221	4.5800e-003	537.7081
Unenclosed Parking with Elevator	407400	129.8064	5.3600e-003	1.1100e-003	130.2708
Total		**3,308.2437**	**0.1366**	**0.0283**	**3,320.0790**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Unmitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	210.2868	1.3842	0.0342	255.0757
Unmitigated	210.2868	1.3842	0.0342	255.0757

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	42.2303 / 0	188.6015	1.3833	0.0340	233.3128
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 6.126	21.6853	9.0000e-004	1.9000e-004	21.7629
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**210.2868**	**1.3842**	**0.0342**	**255.0757**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	42.2303 / 0	188.6015	1.3833	0.0340	233.3128
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 6.126	21.6853	9.0000e-004	1.9000e-004	21.7629
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**210.2868**	**1.3842**	**0.0342**	**255.0757**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	51.3456	3.0344	0.0000	127.2064
Unmitigated	146.7016	8.6698	0.0000	363.4469

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	722.7	146.7016	8.6698	0.0000	363.4469
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**146.7016**	**8.6698**	**0.0000**	**363.4469**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	252.945	51.3456	3.0344	0.0000	127.2064
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**51.3456**	**3.0344**	**0.0000**	**127.2064**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0	0	0	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

11.0 Vegetation

Rancho Los Amigos-Operations - Los Angeles-South Coast County, Annual

Rancho Los Amigos-Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	315.00	1000sqft	1.21	315,000.00	0
Government Office Building	168.00	1000sqft	0.64	168,000.00	0
Government Office Building	167.00	1000sqft	0.77	167,000.00	0
Other Asphalt Surfaces	5.02	Acre	5.02	218,671.20	0
Other Non-Asphalt Surfaces	4.25	Acre	4.25	185,130.00	0
Unenclosed Parking with Elevator	2,167.00	Space	1.96	866,800.00	0
Unenclosed Parking with Elevator	525.00	Space	1.41	210,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	549	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE CO2 intensity factor based on SCE's 2017 Sustainability Report for year 2017

Land Use - Project Specific Information

Vehicle Trips - Trip Rate Consistent with Traffic Study

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	7.23	1.21
tblLandUse	LotAcreage	3.86	0.64
tblLandUse	LotAcreage	3.83	0.77
tblLandUse	LotAcreage	19.50	1.96
tblLandUse	LotAcreage	4.72	1.41
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	0.00	11.45
tblVehicleTrips	SU_TR	0.00	11.45
tblVehicleTrips	WD_TR	68.93	11.45

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	2,983.9107	2,983.9107	0.1455	0.0353	2,998.0622
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Waste						0.0000	0.0000		0.0000	0.0000	122.7080	0.0000	122.7080	7.2518	0.0000	304.0040
Water						0.0000	0.0000		0.0000	0.0000	40.9666	637.6637	678.6303	4.2414	0.1063	816.3476
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**163.6747**	**11,233.3795**	**11,397.0541**	**12.0474**	**0.1416**	**11,740.4362**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Energy	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	2,983.9107	2,983.9107	0.1455	0.0353	2,998.0622
Mobile	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Waste						0.0000	0.0000		0.0000	0.0000	122.7080	0.0000	122.7080	7.2518	0.0000	304.0040
Water						0.0000	0.0000		0.0000	0.0000	40.9666	637.6637	678.6303	4.2414	0.1063	816.3476
Total	**4.7839**	**10.2334**	**24.0203**	**0.0844**	**6.6516**	**0.0951**	**6.7467**	**1.7830**	**0.0904**	**1.8734**	**163.6747**	**11,233.3795**	**11,397.0541**	**12.0474**	**0.1416**	**11,740.4362**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338
Unmitigated	1.9771	9.9013	23.6988	0.0824	6.6516	0.0698	6.7214	1.7830	0.0651	1.8481	0.0000	7,611.7220	7,611.7220	0.4085	0.0000	7,621.9338

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	3,606.75	3,606.75	3606.75	8,493,049	8,493,049
Government Office Building	1,923.60	1,923.60	1923.60	4,529,626	4,529,626
Government Office Building	1,912.15	1,912.15	1912.15	4,502,664	4,502,664
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,442.50	7,442.50	7,442.50	17,525,340	17,525,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Unenclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,622.8245	2,622.8245	0.1386	0.0287	2,634.8302
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,622.8245	2,622.8245	0.1386	0.0287	2,634.8302
NaturalGas Mitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320
NaturalGas Unmitigated	0.0365	0.3317	0.2786	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.0862	361.0862	6.9200e-003	6.6200e-003	363.2320

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815
Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.73847e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7714	92.7714	1.7800e-003	1.7000e-003	93.3227
Government Office Building	1.74888e+006	9.4300e-003	0.0857	0.0720	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.3269	93.3269	1.7900e-003	1.7100e-003	93.8815
Government Office Building	3.27915e+006	0.0177	0.1607	0.1350	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9879	174.9879	3.3500e-003	3.2100e-003	176.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0365**	**0.3317**	**0.2786**	**1.9800e-003**		**0.0252**	**0.0252**		**0.0252**	**0.0252**	**0.0000**	**361.0862**	**361.0862**	**6.9200e-003**	**6.6200e-003**	**363.2320**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	540.2114	0.0285	5.9000e-003	542.6841
Government Office Building	2.18232e+006	543.4462	0.0287	5.9400e-003	545.9337
Government Office Building	4.09185e+006	1,018.9615	0.0538	0.0111	1,023.6257

Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	418.7538	0.0221	4.5800e-003	420.6706
Unenclosed Parking with Elevator	407400	101.4517	5.3600e-003	1.1100e-003	101.9160
Total		**2,622.8244**	**0.1386**	**0.0287**	**2,634.8302**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	2.16933e+006	540.2114	0.0285	5.9000e-003	542.6841
Government Office Building	2.18232e+006	543.4462	0.0287	5.9400e-003	545.9337
Government Office Building	4.09185e+006	1,018.9615	0.0538	0.0111	1,023.6257
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	1.68159e+006	418.7538	0.0221	4.5800e-003	420.6706
Unenclosed Parking with Elevator	407400	101.4517	5.3600e-003	1.1100e-003	101.9160
Total		**2,622.8244**	**0.1386**	**0.0287**	**2,634.8302**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Unmitigated	2.7703	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9800e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0832	0.0832	2.2000e-004	0.0000	0.0887
Total	**2.7703**	**3.9000e-004**	**0.0428**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0832**	**0.0832**	**2.2000e-004**	**0.0000**	**0.0887**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	678.6303	4.2414	0.1063	816.3476
Unmitigated	678.6303	4.2414	0.1063	816.3476

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	129.129 / 79.1435	678.6303	4.2414	0.1063	816.3476

Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**678.6303**	**4.2414**	**0.1063**	**816.3476**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	129.129 / 79.1435	678.6303	4.2414	0.1063	816.3476
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**678.6303**	**4.2414**	**0.1063**	**816.3476**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e

	MT/yr			
Mitigated	122.7080	7.2518	0.0000	304.0040
Unmitigated	122.7080	7.2518	0.0000	304.0040

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	604.5	122.7080	7.2518	0.0000	304.0040
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**122.7080**	**7.2518**	**0.0000**	**304.0040**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	604.5	122.7080	7.2518	0.0000	304.0040
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**122.7080**	**7.2518**	**0.0000**	**304.0040**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix G
Noise Calculations

ESA

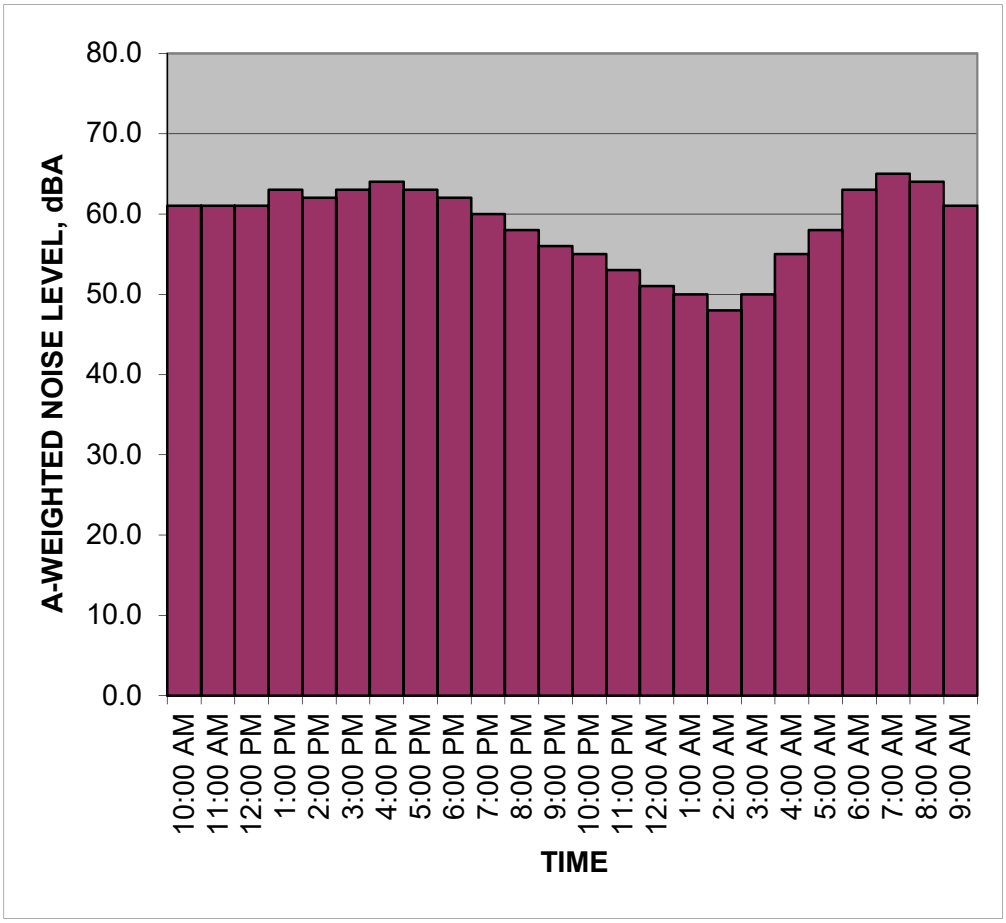
G-1 Noise Measurements

Measured Ambient Noise Levels

Project: Rancho Los Amigos South Campus
Location: R1 - Southern Property Line (Gardendale Street)
Sources: Ambient

Date: October 3-4, 2017

TIME	HNL, dB(A)
10:00 AM	61.0
11:00 AM	61.0
12:00 PM	61.0
1:00 PM	63.0
2:00 PM	62.0
3:00 PM	63.0
4:00 PM	64.0
5:00 PM	63.0
6:00 PM	62.0
7:00 PM	60.0
8:00 PM	58.0
9:00 PM	56.0
10:00 PM	55.0
11:00 PM	53.0
12:00 AM	51.0
1:00 AM	50.0
2:00 AM	48.0
3:00 AM	50.0
4:00 AM	55.0
5:00 AM	58.0
6:00 AM	63.0
7:00 AM	65.0
8:00 AM	64.0
9:00 AM	61.0
CNEL, dB(A):	**64.5**



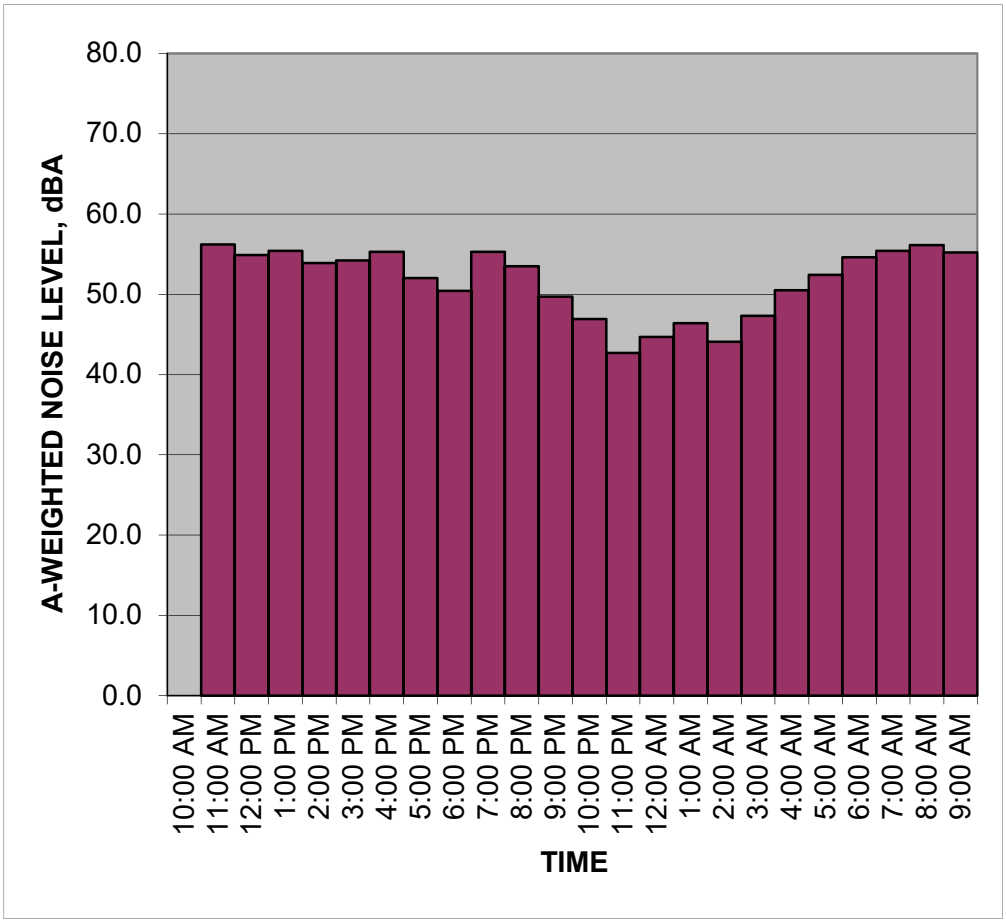
NOTES:

Measured Ambient Noise Levels

Project: Rancho Los Amigos South Campus
Location: R2 - Project Site
Sources: Ambient

Date: October 3-4, 2017

TIME	HNL, dB(A)
10:00 AM	0.0
11:00 AM	56.2
12:00 PM	54.9
1:00 PM	55.4
2:00 PM	53.9
3:00 PM	54.2
4:00 PM	55.3
5:00 PM	52.0
6:00 PM	50.4
7:00 PM	55.3
8:00 PM	53.5
9:00 PM	49.7
10:00 PM	46.9
11:00 PM	42.7
12:00 AM	44.7
1:00 AM	46.4
2:00 AM	44.1
3:00 AM	47.3
4:00 AM	50.5
5:00 AM	52.4
6:00 AM	54.6
7:00 AM	55.4
8:00 AM	56.1
9:00 AM	55.2
CNEL, dB(A):	**57.6**



NOTES:

fieldcnel.xls

Summary

File Name on Meter	LxT_Data.049
File Name on PC	SLM_0004983_LxT_Data_049.00.ldbin
Serial Number	0004983
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	R3
Job Description	
Note	

Measurement

Description	
Start	2017-10-03 11:30:21
Stop	2017-10-03 11:45:21
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2017-10-03 10:29:03
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting			
Peak Weight	A Weighting			
Detector	Slow			
Preamp	PRMLxT1			
Microphone Correction	Off			
Integration Method	Exponential			
Overload	147.4 dB			
	A	**C**	**Z**	
Under Range Peak	**103.7**	100.7	105.7	dB
Under Range Limit	**38.8**	36.8	44.8	dB
Noise Floor	25.9	26.5	34.0	dB

Results

L_{ASeq}	58.5	dB	
LASE	88.0	dB	
EAS	70.822	µPa²h	
EAS8	2.266	mPa²h	
EAS40	11.332	mPa²h	
$L_{ASpeak\ (max)}$	2017-10-03 11:41:30	89.7	dB
L_{ASmax}	2017-10-03 11:40:40	75.0	dB
L_{ASmin}	2017-10-03 11:43:41	49.7	dB
SEA	-99.9	dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0	s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0	s
L_{ASpeak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0	s
L_{ASpeak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0	s
L_{ASpeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0	s
L_{CSeq}	73.6	dB	
L_{ASeq}	58.5	dB	
L_{CSeq} - L_{ASeq}	15.1	dB	
L_{Aleq}	60.7	dB	
L_{Aeq}	58.5	dB	
L_{Aleq} - L_{Aeq}	2.2	dB	

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	58.5					
$L_{S(max)}$	75.0	2017/10/03 11:40:40				
$L_{S(min)}$	49.7	2017/10/03 11:43:41				
$L_{Peak(max)}$	89.7	2017/10/03 11:41:30				

# Overloads	0

Overload Duration	0.0	s

Dose Settings

Dose Name	OSHA-1	OSHA-2	
Exchange Rate	5	5	dB
Threshold	90	80	dB
Criterion Level	90	90	dB
Criterion Duration	8	8	h

Results

Dose	-99.9	-99.9	%
Projected Dose	-99.9	-99.9	%
TWA (Projected)	-99.9	-99.9	dB
TWA (t)	-99.9	-99.9	dB
Lep (t)	43.5	43.5	dB

Statistics

LAS5.00	63.8	dB
LAS10.00	59.9	dB
LAS33.30	54.1	dB
LAS50.00	52.9	dB
LAS66.60	52.1	dB
LAS90.00	50.9	dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2017-10-03 10:29:03	-53.7			
PRMLxT1	2017-10-03 10:28:48	-53.7			
PRMLxT1	2017-09-27 07:22:07	-51.0			
PRMLxT1	2017-09-26 07:14:48	-52.9			
PRMLxT1	2017-09-25 07:02:41	-53.0			
PRMLxT1	2017-08-25 16:24:35	-52.7			
PRMLxT1	2017-08-25 16:24:19	-52.7			
PRMLxT1	2017-04-05 14:06:41	-50.9			
PRMLxT1	2017-04-04 15:32:48	-51.4			
PRMLxT1	2014-12-05 22:48:41	-51.3			
PRMLxT1	2014-12-05 22:08:34	-49.0			

Summary

File Name on Meter	LxT_Data.050
File Name on PC	SLM_0004983_LxT_Data_050.00.ldbin
Serial Number	0004983
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	R4
Job Description	
Note	

Measurement

Description	
Start	2017-10-03 11:47:58
Stop	2017-10-03 12:02:58
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2017-10-03 10:29:03
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting			
Peak Weight	A Weighting			
Detector	Slow			
Preamp	PRMLxT1			
Microphone Correction	Off			
Integration Method	Exponential			
Overload	147.4 dB			
	A	**C**	**Z**	
Under Range Peak	**103.7**	100.7	105.7	dB
Under Range Limit	**38.8**	36.8	44.8	dB
Noise Floor	25.9	26.5	34.0	dB

Results

LASeq	57.9	dB	
LASE	87.4	dB	
EAS	61.275	µPa²h	
EAS8	1.961	mPa²h	
EAS40	9.804	mPa²h	
LASpeak (max)	2017-10-03 11:52:07	87.2	dB
LASmax	2017-10-03 12:01:35	71.9	dB
LASmin	2017-10-03 11:59:46	50.3	dB
SEA	-99.9	dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0	s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0	s
LASpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0	s
LASpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0	s
LASpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0	s
LCSeq	67.7	dB	
LASeq	57.9	dB	
LCSeq - LASeq	9.8	dB	
LAleq	59.5	dB	
LAeq	57.9	dB	
LAleq - LAeq	1.7	dB	

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
Leq	57.9					
LS(max)	71.9	2017/10/03 12:01:35				
LS(min)	50.3	2017/10/03 11:59:46				
LPeak(max)	87.2	2017/10/03 11:52:07				

# Overloads	0

Overload Duration	0.0	s

Dose Settings

Dose Name	OSHA-1	OSHA-2	
Exchange Rate	5	5	dB
Threshold	90	80	dB
Criterion Level	90	90	dB
Criterion Duration	8	8	h

Results

Dose	-99.9	-99.9	%
Projected Dose	-99.9	-99.9	%
TWA (Projected)	-99.9	-99.9	dB
TWA (t)	-99.9	-99.9	dB
Lep (t)	42.8	42.8	dB

Statistics

LAS5.00	64.0	dB
LAS10.00	60.1	dB
LAS33.30	54.6	dB
LAS50.00	53.3	dB
LAS66.60	52.6	dB
LAS90.00	51.5	dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2017-10-03 10:29:03	-53.7			
PRMLxT1	2017-10-03 10:28:48	-53.7			
PRMLxT1	2017-09-27 07:22:07	-51.0			
PRMLxT1	2017-09-26 07:14:48	-52.9			
PRMLxT1	2017-09-25 07:02:41	-53.0			
PRMLxT1	2017-08-25 16:24:35	-52.7			
PRMLxT1	2017-08-25 16:24:19	-52.7			
PRMLxT1	2017-04-05 14:06:41	-50.9			
PRMLxT1	2017-04-04 15:32:48	-51.4			
PRMLxT1	2014-12-05 22:48:41	-51.3			
PRMLxT1	2014-12-05 22:08:34	-49.0			

Summary

File Name on Meter	LxT_Data.047
File Name on PC	SLM_0004983_LxT_Data_047.00.ldbin
Serial Number	0004983
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	R5
Job Description	
Note	

Measurement

Description	
Start	2017-10-03 10:48:29
Stop	2017-10-03 11:03:29
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2017-10-03 10:29:03
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Exponential
Overload	147.4 dB

	A	C	Z
Under Range Peak	**103.7**	100.7	105.7 dB
Under Range Limit	**38.8**	36.8	44.8 dB
Noise Floor	25.9	26.5	34.0 dB

Results

LA_{Seq}	51.1 dB	
LASE	80.7 dB	
EAS	12.913 µPa²h	
EAS8	413.228 µPa²h	
EAS40	2.066 mPa²h	
$LA_{Speak\ (max)}$	2017-10-03 10:48:35	87.1 dB
LA_{Smax}	2017-10-03 10:53:47	66.1 dB
LA_{Smin}	2017-10-03 10:49:58	46.7 dB
SEA	-99.9 dB	

LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LA_{Speak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LA_{Speak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LA_{Speak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

LC_{Seq}	65.0 dB
LA_{Seq}	51.1 dB
LC_{Seq} - LA_{Seq}	13.9 dB
LA_{Ieq}	53.7 dB
LA_{eq}	51.1 dB
LA_{Ieq} - LA_{eq}	2.6 dB

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	51.1					
$L_{S(max)}$	66.1	2017/10/03 10:53:47				
$L_{S(min)}$	46.7	2017/10/03 10:49:58				
$L_{Peak(max)}$	87.1	2017/10/03 10:48:35				

# Overloads	0

Overload Duration	0.0 s

Dose Settings			
Dose Name	OSHA-1	OSHA-2	
Exchange Rate	5	5	dB
Threshold	90	80	dB
Criterion Level	90	90	dB
Criterion Duration	8	8	h

Results			
Dose	-99.9	-99.9	%
Projected Dose	-99.9	-99.9	%
TWA (Projected)	-99.9	-99.9	dB
TWA (t)	-99.9	-99.9	dB
Lep (t)	36.1	36.1	dB

Statistics		
LAS5.00	54.4	dB
LAS10.00	52.4	dB
LAS33.30	50.5	dB
LAS50.00	49.8	dB
LAS66.60	49.1	dB
LAS90.00	48.4	dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2017-10-03 10:29:03	-53.7			
PRMLxT1	2017-10-03 10:28:48	-53.7			
PRMLxT1	2017-09-27 07:22:07	-51.0			
PRMLxT1	2017-09-26 07:14:48	-52.9			
PRMLxT1	2017-09-25 07:02:41	-53.0			
PRMLxT1	2017-08-25 16:24:35	-52.7			
PRMLxT1	2017-08-25 16:24:19	-52.7			
PRMLxT1	2017-04-05 14:06:41	-50.9			
PRMLxT1	2017-04-04 15:32:48	-51.4			
PRMLxT1	2014-12-05 22:48:41	-51.3			
PRMLxT1	2014-12-05 22:08:34	-49.0			

Summary

File Name on Meter	LxT_Data.046
File Name on PC	SLM_0004983_LxT_Data_046.00.ldbin
Serial Number	0004983
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	R6
Job Description	
Note	

Measurement

Description	
Start	2017-10-03 10:30:26
Stop	2017-10-03 10:45:26
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2017-10-03 10:29:04
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting			
Peak Weight	A Weighting			
Detector	Slow			
Preamp	PRMLxT1			
Microphone Correction	Off			
Integration Method	Exponential			
Overload	147.4 dB			
	A	**C**	**Z**	
Under Range Peak	**103.7**	100.7	105.7	dB
Under Range Limit	**38.8**	36.8	44.8	dB
Noise Floor	25.9	26.5	34.0	dB

Results

LASeq	54.0	dB	
LASE	83.6	dB	
EAS	25.196	µPa²h	
EAS8	806.288	µPa²h	
EAS40	4.031	mPa²h	
LASpeak (max)	2017-10-03 10:39:56	94.5	dB
LASmax	2017-10-03 10:39:56	70.2	dB
LASmin	2017-10-03 10:37:31	48.1	dB
SEA	-99.9	dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0	s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0	s
LASpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0	s
LASpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0	s
LASpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0	s
LCSeq	66.6	dB	
LASeq	54.0	dB	
LCSeq - LASeq	12.6	dB	
LAleq	60.4	dB	
LAeq	54.0	dB	
LAleq - LAeq	6.4	dB	

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
Leq	54.0					
LS(max)	70.2	2017/10/03 10:39:56				
LS(min)	48.1	2017/10/03 10:37:31				
LPeak(max)	94.5	2017/10/03 10:39:56				

# Overloads	0

Overload Duration	0.0	s

Dose Settings

Dose Name	OSHA-1	OSHA-2	
Exchange Rate	5	5	dB
Threshold	90	80	dB
Criterion Level	90	90	dB
Criterion Duration	8	8	h

Results

Dose	-99.9	-99.9	%
Projected Dose	-99.9	-99.9	%
TWA (Projected)	-99.9	-99.9	dB
TWA (t)	-99.9	-99.9	dB
Lep (t)	39.0	39.0	dB

Statistics

LAS5.00	57.7	dB
LAS10.00	55.8	dB
LAS33.30	53.0	dB
LAS50.00	52.0	dB
LAS66.60	51.2	dB
LAS90.00	50.1	dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2017-10-03 10:29:03	-53.7			
PRMLxT1	2017-10-03 10:28:48	-53.7			
PRMLxT1	2017-09-27 07:22:07	-51.0			
PRMLxT1	2017-09-26 07:14:48	-52.9			
PRMLxT1	2017-09-25 07:02:41	-53.0			
PRMLxT1	2017-08-25 16:24:35	-52.7			
PRMLxT1	2017-08-25 16:24:19	-52.7			
PRMLxT1	2017-04-05 14:06:41	-50.9			
PRMLxT1	2017-04-04 15:32:48	-51.4			
PRMLxT1	2014-12-05 22:48:41	-51.3			
PRMLxT1	2014-12-05 22:08:34	-49.0			

Summary

File Name on Meter	LxT_Data.051
File Name on PC	SLM_0004983_LxT_Data_051.00.ldbin
Serial Number	0004983
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	R7
Job Description	
Note	

Measurement

Description	
Start	2017-10-03 12:10:28
Stop	2017-10-03 12:25:28
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2017-10-03 10:29:03
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Exponential
Overload	147.4 dB

	A	**C**	**Z**
Under Range Peak	**103.7**	100.7	105.7 dB
Under Range Limit	**38.8**	36.8	44.8 dB
Noise Floor	25.9	26.5	34.0 dB

Results

L_{ASeq}	59.1 dB		
LASE	88.6 dB		
EAS	80.933 µPa²h		
EAS8	2.590 mPa²h		
EAS40	12.949 mPa²h		
$L_{ASpeak\ (max)}$	2017-10-03 12:10:28	95.2 dB	
L_{ASmax}	2017-10-03 12:10:29	74.9 dB	
L_{ASmin}	2017-10-03 12:18:15	52.2 dB	
SEA	-99.9 dB		
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s	
L_{ASpeak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s	
L_{ASpeak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s	
L_{ASpeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s	
L_{CSeq}	69.5 dB		
L_{ASeq}	59.1 dB		
L_{CSeq} - L_{ASeq}	10.4 dB		
L_{AIeq}	63.4 dB		
L_{Aeq}	59.0 dB		
L_{AIeq} - L_{Aeq}	4.3 dB		

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	59.0					
$L_{S(max)}$	74.9	2017/10/03 12:10:29				
$L_{S(min)}$	52.2	2017/10/03 12:18:15				
$L_{Peak(max)}$	95.2	2017/10/03 12:10:28				

# Overloads	0

Overload Duration	0.0	s

Dose Settings

Dose Name	OSHA-1	OSHA-2	
Exchange Rate	5	5	dB
Threshold	90	80	dB
Criterion Level	90	90	dB
Criterion Duration	8	8	h

Results

Dose	-99.9	-99.9	%
Projected Dose	-99.9	-99.9	%
TWA (Projected)	-99.9	-99.9	dB
TWA (t)	-99.9	-99.9	dB
Lep (t)	44.0	44.0	dB

Statistics

LAS5.00	63.6	dB
LAS10.00	60.9	dB
LAS33.30	58.2	dB
LAS50.00	57.0	dB
LAS66.60	56.0	dB
LAS90.00	54.2	dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2017-10-03 10:29:03	-53.7			
PRMLxT1	2017-10-03 10:28:48	-53.7			
PRMLxT1	2017-09-27 07:22:07	-51.0			
PRMLxT1	2017-09-26 07:14:48	-52.9			
PRMLxT1	2017-09-25 07:02:41	-53.0			
PRMLxT1	2017-08-25 16:24:35	-52.7			
PRMLxT1	2017-08-25 16:24:19	-52.7			
PRMLxT1	2017-04-05 14:06:41	-50.9			
PRMLxT1	2017-04-04 15:32:48	-51.4			
PRMLxT1	2014-12-05 22:48:41	-51.3			
PRMLxT1	2014-12-05 22:08:34	-49.0			

G-2 Construction Noise Calculations

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Campus Demolition				**R1**					**R3**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
H: Demolition					**84**	***80***				**72**	***70***		
Concrete Saw	1	90	20%	100	84	77	80	0	400	72	65	68	0
Excavator	3	85	40%	150	80	76	79	0	450	71	67	70	0
Other Equipment	1	85	50%	200	73	70	73	0	500	65	62	65	0
Rubber Tired Dozer	2	82	40%	250	71	67	70	0	550	64	60	63	0
I: Site Preparation					**88**	***85***				**81**	***79***		
Rubber Tired Dozer	8	82	40%	75	88	84	87	0	150	81	78	81	0
Tractors/Loaders/Backhoes	10	80	40%	125	82	78	81	0	200	78	74	77	0
J: Grading/Excavation					**81**	***81***				**76**	***76***		
Graders	1	85	40%	75	81	77	80	0	150	75	71	74	0
Excavator	2	85	40%	125	80	76	79	0	200	76	72	75	0
Scrapers	2	85	40%	175	77	73	76	0	250	74	70	73	0
Rubber Tired Dozer	1	82	40%	225	69	65	68	0	300	66	62	65	0
Tractors/Loaders/Backhoes	2	80	40%	275	68	64	67	0	350	66	62	65	0
K: Landscaping					**81**	***81***				**76**	***76***		
Other Equipment	1	85	50%	75	81	78	81	0	150	75	72	75	0
Forklift	2	85	50%	125	80	77	80	0	200	76	73	76	0
Tractors/Loaders/Backhoes	2	80	40%	175	72	68	71	0	250	69	65	68	0
Skid Steer Loaders	2	80	40%	225	70	66	69	0	300	67	63	66	0
L: Soil Remediation					**62**	***62***				**52**	***53***		
Graders	1	85	40%	1000	59	55	58	0	1500	45	41	44	10
Excavator	2	85	40%	1050	62	58	61	0	1550	48	44	47	10
Scrapers	2	85	40%	1100	61	57	60	0	1600	48	44	47	10
Rubber Tired Dozer	1	82	40%	1150	55	51	54	0	1650	52	48	51	0
Tractors/Loaders/Backhoes	2	80	40%	1200	55	51	54	0	1700	52	48	51	0

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Campus Demolition				**R4**					**R5**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
H: Demolition					**71**	***69***				**85**	***80***		
Concrete Saw	1	90	20%	450	71	64	67	0	50	85	78	81	5
Excavator	3	85	40%	500	70	66	69	0	100	79	75	78	5
Other Equipment	1	85	50%	550	64	61	64	0	150	70	67	70	5
Rubber Tired Dozer	2	82	40%	600	63	59	62	0	200	68	64	67	5
I: Site Preparation					**91**	***88***				**86**	***83***		
Rubber Tired Dozer	8	82	40%	50	91	87	90	0	50	86	82	85	5
Tractors/Loaders/Backhoes	10	80	40%	100	84	80	83	0	100	79	75	78	5
J: Grading/Excavation					**85**	***84***				**80**	***79***		
Graders	1	85	40%	50	85	81	84	0	50	80	76	79	5
Excavator	2	85	40%	100	82	78	81	0	100	77	73	76	5
Scrapers	2	85	40%	150	78	74	77	0	150	73	69	72	5
Rubber Tired Dozer	1	82	40%	200	70	66	69	0	200	65	61	64	5
Tractors/Loaders/Backhoes	2	80	40%	250	69	65	68	0	250	64	60	63	5
K: Landscaping					**85**	***84***				**80**	***79***		
Other Equipment	1	85	50%	50	85	82	85	0	50	80	77	80	5
Forklift	2	85	50%	100	82	79	82	0	100	77	74	77	5
Tractors/Loaders/Backhoes	2	80	40%	150	73	69	72	0	150	68	64	67	5
Skid Steer Loaders	2	80	40%	200	71	67	70	0	200	66	62	65	5
L: Soil Remediation					**59**	***59***				**54**	***55***		
Graders	1	85	40%	1400	56	52	55	0	1300	52	48	51	5
Excavator	2	85	40%	1450	59	55	58	0	1350	54	50	53	5
Scrapers	2	85	40%	1500	58	54	57	0	1400	54	50	53	5
Rubber Tired Dozer	1	82	40%	1550	52	48	51	0	1450	48	44	47	5
Tractors/Loaders/Backhoes	2	80	40%	1600	53	49	52	0	1500	48	44	47	5

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Campus Demolition				**R6**					**R7**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
H: Demolition					**59**	***58***				**49**	***48***		
Concrete Saw	1	90	20%	1000	59	52	55	5	950	49	42	45	15
Excavator	3	85	40%	1050	58	54	57	5	1000	49	45	48	15
Other Equipment	1	85	50%	1100	53	50	53	5	1050	44	41	44	15
Rubber Tired Dozer	2	82	40%	1150	53	49	52	5	1100	43	39	42	15
I: Site Preparation					**60**	***58***				**50**	***49***		
Rubber Tired Dozer	8	82	40%	1000	60	56	59	5	950	50	46	49	15
Tractors/Loaders/Backhoes	10	80	40%	1050	59	55	58	5	1000	49	45	48	15
J: Grading/Excavation					**57**	***57***				**47**	***48***		
Graders	1	85	40%	1000	54	50	53	5	950	44	40	43	15
Excavator	2	85	40%	1050	57	53	56	5	1000	47	43	46	15
Scrapers	2	85	40%	1100	56	52	55	5	1050	47	43	46	15
Rubber Tired Dozer	1	82	40%	1150	50	46	49	5	1100	40	36	39	15
Tractors/Loaders/Backhoes	2	80	40%	1200	50	46	49	5	1150	41	37	40	15
K: Landscaping					**57**	***57***				**47**	***47***		
Other Equipment	1	85	50%	1000	54	51	54	5	950	44	41	44	15
Forklift	2	85	50%	1050	57	54	57	5	1000	47	44	47	15
Tractors/Loaders/Backhoes	2	80	40%	1100	51	47	50	5	1050	42	38	41	15
Skid Steer Loaders	2	80	40%	1150	51	47	50	5	1100	41	37	40	15
L: Soil Remediation					**54**	***55***				**47**	***47***		
Graders	1	85	40%	1300	52	48	51	5	1000	44	40	43	15
Excavator	2	85	40%	1350	54	50	53	5	1050	47	43	46	15
Scrapers	2	85	40%	1400	54	50	53	5	1100	46	42	45	15
Rubber Tired Dozer	1	82	40%	1450	48	44	47	5	1150	40	36	39	15
Tractors/Loaders/Backhoes	2	80	40%	1500	48	44	47	5	1200	40	36	39	15

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

ISD, Probation Headquarters, County Office				**R1**					**R3**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
A: Demolition					**65**	***64***				**59**	***58***		
Concrete Saw	1	90	20%	900	65	58	61	0	950	59	52	55	5
Other Equipment	1	85	50%	950	59	56	59	0	1000	54	51	54	5
Excavator	3	85	40%	1000	64	60	63	0	1050	58	54	57	5
Rubber Tired Dozer	2	82	40%	1050	59	55	58	0	1100	53	49	52	5
B: Site Preparation (Vegetation Removal)					**66**	***64***				**60**	***59***		
Rubber Tired Dozer	8	82	40%	900	66	62	65	0	950	60	56	59	5
Tractors/Loaders/Backhoes	10	80	40%	950	64	60	63	0	1000	59	55	58	5
C: Grading/Excavation					**62**	***63***				**57**	***58***		
Graders	1	85	40%	900	60	56	59	0	950	54	50	53	5
Scrapers	2	85	40%	950	62	58	61	0	1000	57	53	56	5
Excavator	2	85	40%	1000	62	58	61	0	1050	57	53	56	5
Rubber Tired Dozer	1	82	40%	1050	56	52	55	0	1100	50	46	49	5
Tractors/Loaders/Backhoes	2	80	40%	1100	56	52	55	0	1150	51	47	50	5
D: Building Construction					**67**	***66***				**62**	***60***		
Cranes	2	85	16%	900	63	55	58	0	950	57	49	52	5
Forklifts	6	85	50%	950	67	64	67	0	1000	62	59	62	5
Generator Sets	2	82	50%	1000	59	56	59	0	1050	54	51	54	5
Tractors/Loaders/Backhoes	6	80	40%	1050	61	57	60	0	1100	56	52	55	5
Welders	2	73	40%	1100	49	45	48	0	1150	44	40	43	5
E: Architectural Coating					**61**	***57***				**55**	***51***		
Air Compressor	4	80	40%	900	61	57	60	0	950	55	51	54	5
F: Off-Site Utilities and Street Improvements					**86**	***82***				**67**	***65***		
Concrete Saw	1	90	20%	75	86	79	82	0	400	67	60	63	5
Excavator	3	85	40%	125	82	78	81	0	450	66	62	65	5
Rubber Tired Dozer	2	82	40%	175	74	70	73	0	500	60	56	59	5
G: Paving					**84**	***83***				**65**	***65***		
Paving Equipment	2	85	50%	75	84	81	84	0	400	65	62	65	5
Roller	2	85	20%	125	80	73	76	0	450	64	57	60	5
Paver	2	85	50%	175	77	74	77	0	500	63	60	63	5

Source for Ref. Noise Levels: FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

ISD, Probation Headquarters, County Office				**R4**					**R5**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
A: Demolition					**52**	***51***				**95**	***89***		
Concrete Saw	1	90	20%	700	52	45	48	15	15	95	88	91	5
Other Equipment	1	85	50%	750	46	43	46	15	65	78	75	78	5
Excavator	3	85	40%	800	51	47	50	15	115	78	74	77	5
Rubber Tired Dozer	2	82	40%	850	45	41	44	15	165	70	66	69	5
B: Site Preparation (Vegetation Removal)					**58**	***56***				**76**	***74***		
Rubber Tired Dozer	8	82	40%	400	58	54	57	15	160	76	72	75	5
Tractors/Loaders/Backhoes	10	80	40%	450	56	52	55	15	210	73	69	72	5
C: Grading/Excavation					**68**	***64***				**90**	***87***		
Graders	1	85	40%	400	52	48	51	15	15	90	86	89	5
Scrapers	2	85	40%	450	54	50	53	15	65	81	77	80	5
Excavator	2	85	40%	500	68	64	67	0	115	76	72	75	5
Rubber Tired Dozer	1	82	40%	550	46	42	45	15	165	67	63	66	5
Tractors/Loaders/Backhoes	2	80	40%	600	46	42	45	15	215	65	61	64	5
D: Building Construction					**54**	***53***				**74**	***72***		
Cranes	2	85	16%	700	50	42	45	15	200	71	63	66	5
Forklifts	6	85	50%	750	54	51	54	15	250	74	71	74	5
Generator Sets	2	82	50%	800	46	43	46	15	300	64	61	64	5
Tractors/Loaders/Backhoes	6	80	40%	850	48	44	47	15	350	66	62	65	5
Welders	2	73	40%	900	36	32	35	15	400	53	49	52	5
E: Architectural Coating					**48**	***44***				**69**	***65***		
Air Compressor	4	80	40%	700	48	44	47	15	200	69	65	68	5
F: Off-Site Utilities and Street Improvements					**61**	***58***				**87**	***81***		
Concrete Saw	1	90	20%	250	61	54	57	15	40	87	80	83	5
Excavator	3	85	40%	300	59	55	58	15	90	80	76	79	5
Rubber Tired Dozer	2	82	40%	350	53	49	52	15	140	71	67	70	5
G: Paving					**59**	***59***				**65**	***65***		
Paving Equipment	2	85	50%	250	59	56	59	15	400	65	62	65	5
Roller	2	85	20%	300	57	50	53	15	450	64	57	60	5
Paver	2	85	50%	350	56	53	56	15	500	63	60	63	5

Source for Ref. Noise Levels: FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

ISD, Probation Headquarters, County Office				**R6**					**R7**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
A: Demolition					**75**	***72***				**56**	***54***		
Concrete Saw	1	90	20%	150	75	68	71	5	450	56	49	52	15
Other Equipment	1	85	50%	200	68	65	68	5	500	50	47	50	15
Excavator	3	85	40%	250	71	67	70	5	550	54	50	53	15
Rubber Tired Dozer	2	82	40%	300	64	60	63	5	600	48	44	47	15
B: Site Preparation (Vegetation Removal)					**76**	***74***				**57**	***55***		
Rubber Tired Dozer	8	82	40%	150	76	73	76	5	450	57	53	56	15
Tractors/Loaders/Backhoes	10	80	40%	200	73	69	72	5	500	55	51	54	15
C: Grading/Excavation					**71**	***71***				**53**	***54***		
Graders	1	85	40%	150	70	66	69	5	450	51	47	50	15
Scrapers	2	85	40%	200	71	67	70	5	500	53	49	52	15
Excavator	2	85	40%	250	69	65	68	5	550	52	48	51	15
Rubber Tired Dozer	1	82	40%	300	61	57	60	5	600	45	41	44	15
Tractors/Loaders/Backhoes	2	80	40%	350	61	57	60	5	650	46	42	45	15
D: Building Construction					**76**	***74***				**58**	***56***		
Cranes	2	85	16%	150	73	66	69	5	450	54	46	49	15
Forklifts	6	85	50%	200	76	73	76	5	500	58	55	58	15
Generator Sets	2	82	50%	250	66	63	66	5	550	49	46	49	15
Tractors/Loaders/Backhoes	6	80	40%	300	67	63	66	5	600	51	47	50	15
Welders	2	73	40%	350	54	50	53	5	650	39	35	38	15
E: Architectural Coating					**71**	***67***				**52**	***48***		
Air Compressor	4	80	40%	150	71	67	70	5	450	52	48	51	15
F: Off-Site Utilities and Street Improvements					**75**	***72***				**56**	***54***		
Concrete Saw	1	90	20%	150	75	68	71	5	450	56	49	52	15
Excavator	3	85	40%	200	73	69	72	5	500	55	51	54	15
Rubber Tired Dozer	2	82	40%	250	66	62	65	5	550	49	45	48	15
G: Paving					**73**	***72***				**54**	***54***		
Paving Equipment	2	85	50%	150	73	70	73	5	450	54	51	54	15
Roller	2	85	20%	200	71	64	67	5	500	53	46	49	15
Paver	2	85	50%	250	69	66	69	5	550	52	49	52	15

Source for Ref. Noise Levels: FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

	R1	R3	R4	R5	R6	R7
Overlapping Phases	**Leq**	**Leq**	**Leq**	**Leq**	**Leq**	**Leq**
D: Building Construction	66	60	53	72	74	56
F: Off-Site Utilities and Street Improvements	82	65	58	81	72	54
Maximum Overlapping Noise Level	***82***	***66***	***59***	***82***	***76***	***58***
D: Building Construction	66	60	53	72	74	56
G: Paving	83	65	59	65	72	54
Maximum Overlapping Noise Level	***83***	***66***	***60***	***73***	***76***	***58***
A: Demolition	64	58	51	89	72	54
I: Site Preparation	85	79	88	83	58	49
Maximum Overlapping Noise Level	***85***	***79***	***88***	***90***	***72***	***55***
A: Demolition	64	58	51	89	72	54
J: Grading/Excavation	81	76	84	79	57	48
Maximum Overlapping Noise Level	***81***	***76***	***84***	***89***	***72***	***55***
B: Site Preparation (Vegetation Removal)	64	59	56	74	74	55
J: Grading/Excavation	81	76	84	79	57	48
Maximum Overlapping Noise Level	***81***	***76***	***84***	***80***	***74***	***56***
A: Demolition	64	58	51	89	72	54
K: Landscaping	81	76	84	79	57	47
Maximum Overlapping Noise Level	***81***	***76***	***84***	***89***	***72***	***55***
B: Site Preparation (Vegetation Removal)	64	59	56	74	74	55
K: Landscaping	81	76	84	79	57	47
Maximum Overlapping Noise Level	***81***	***76***	***84***	***80***	***74***	***56***
A: Demolition	64	58	51	89	72	54
L: Soil Remediation	62	53	59	55	55	47
Maximum Overlapping Noise Level	***66***	***59***	***60***	***89***	***72***	***55***
Maximum	85	79	88	90	76	58
Ambient	62	58.5	57.9	51.1	54	59
Increase over Ambient	22.6	20.6	29.9	38.7	22.3	-0.8

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

ISD, Probation Headquarters, County Office				**R5**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
A: Demolition					**85**	***80***		
Concrete Saw	1	90	20%	50	85	78	81	5
Other Equipment	1	85	50%	100	74	71	74	5
Excavator	3	85	40%	150	75	71	74	5
Rubber Tired Dozer	2	82	40%	200	68	64	67	5
B: Site Preparation (Vegetation Removal)					**76**	***74***		
Rubber Tired Dozer	8	82	40%	160	76	72	75	5
Tractors/Loaders/Backhoes	10	80	40%	210	73	69	72	5
C: Grading/Excavation					**80**	***79***		
Graders	1	85	40%	50	80	76	79	5
Scrapers	2	85	40%	100	77	73	76	5
Excavator	2	85	40%	150	73	69	72	5
Rubber Tired Dozer	1	82	40%	200	65	61	64	5
Tractors/Loaders/Backhoes	2	80	40%	250	64	60	63	5
D: Building Construction					**74**	***72***		
Cranes	2	85	16%	200	71	63	66	5
Forklifts	6	85	50%	250	74	71	74	5
Generator Sets	2	82	50%	300	64	61	64	5
Tractors/Loaders/Backhoes	6	80	40%	350	66	62	65	5
Welders	2	73	40%	400	53	49	52	5
E: Architectural Coating					**69**	***65***		
Air Compressor	4	80	40%	200	69	65	68	5
F: Off-Site Utilities and Street Improvements					**85**	***80***		
Concrete Saw	1	90	20%	50	85	78	81	5
Excavator	3	85	40%	100	79	75	78	5
Rubber Tired Dozer	2	82	40%	150	70	66	69	5
G: Paving					**65**	***65***		
Paving Equipment	2	85	50%	400	65	62	65	5
Roller	2	85	20%	450	64	57	60	5
Paver	2	85	50%	500	63	60	63	5

Source for Ref. Noise Levels: FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus - Mitigated

Construction Noise Impact on Sensitive Receptors - Overlapping Phases

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

	R1	R3	R4	R5	R6	R7
Overlapping Phases	**Leq**	**Leq**	**Leq**	**Leq**	**Leq**	**Leq**
D: Building Construction	66	60	53	72	74	56
F: Off-Site Utilities and Street Improvements	82	65	58	79	72	54
Maximum Overlapping Noise Level	***82***	***66***	***59***	***80***	***76***	***58***
D: Building Construction	66	60	53	72	74	56
G: Paving	83	65	59	65	72	54
Maximum Overlapping Noise Level	***83***	***66***	***60***	***73***	***76***	***58***
A: Demolition	64	58	51	80	72	54
I: Site Preparation	85	79	88	82	58	49
Maximum Overlapping Noise Level	***85***	***79***	***88***	***84***	***72***	***55***
A: Demolition	64	58	51	80	72	54
J: Grading/Excavation	81	76	84	78	57	48
Maximum Overlapping Noise Level	***81***	***76***	***84***	***82***	***72***	***55***
B: Site Preparation (Vegetation Removal)	64	59	56	74	74	55
J: Grading/Excavation	81	76	84	78	57	48
Maximum Overlapping Noise Level	***81***	***76***	***84***	***79***	***74***	***56***
A: Demolition	64	58	51	80	72	54
K: Landscaping	81	76	84	78	57	47
Maximum Overlapping Noise Level	***81***	***76***	***84***	***82***	***72***	***55***
B: Site Preparation (Vegetation Removal)	64	59	56	74	74	55
K: Landscaping	81	76	84	78	57	47
Maximum Overlapping Noise Level	***81***	***76***	***84***	***80***	***74***	***56***
A: Demolition	64	58	51	80	72	54
L: Soil Remediation	62	53	59	55	55	47
Maximum Overlapping Noise Level	***66***	***59***	***60***	***80***	***72***	***55***

Maximum	85	79	88	84	76	58
Mitigated	57	51	60	56	48	30
Ambient	62	58.5	57.9	51.1	54	59
Ambient Plus Mitigation Construction	63	59	62	57	55	59
Increase over Ambient	1.1	0.7	4.1	6.1	1.0	0.0

TRAFFIC NOISE ANALYSIS TOOL

Project Name: Rancho Los Amigos South Campus
Project Number: D170230
Analysis Scenario: Grading and Excavation (Remediation)
Source of Traffic Volumes: County

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Imperial Highway between I-710 and Erickson	Hard	50	35	35	35	0	0	77	65.0	65.3

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.
CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

G-3 Traffic Noise Calculations

TRAFFIC NOISE ANALYSIS TOOL

Project Name: Rancho Los Amigos South Campus
Project Number: D170230
Analysis Scenario: Existing
Source of Traffic Volumes: National Data & Surveying Services.

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Gardendale St, between Garfield Ave and Monroe Ave	Hard	45	35	35	35	1188	25	12	66.2	66.5
Gardendale St, between Monroe Ave and Industrial Ave	Hard	45	35	35	35	1267	26	13	66.5	66.8
Gardendale St, between Industrial Ave and Erickson Ave	Hard	45	35	35	35	1250	26	13	66.4	66.7
Gardendale St, between Erickson Ave and Arizona Ave	Hard	45	35	35	35	1245	26	13	66.4	66.7
Gardendale St, between Arizona Ave and Paramount Blvd	Hard	45	35	35	35	1287	27	13	66.5	66.8
Gardendale St, between Paramount Blvd and Downey Ave	Hard	35	35	35	35	1389	29	14	68.0	68.3
Gardendale St, between Downey Ave and N. Somerset Road-Brookshire Ave	Hard	40	35	35	35	1358	28	14	67.3	67.6
Gardendale St, between N. Somerset Road-Brookshire Ave and Lakewood Blvd	Hard	40	35	35	35	1589	33	16	68.0	68.3
Imperial Hyw, between Ruchti Rd-Garfield Pl and Garfield Ave	Hard	50	40	40	40	3390	70	35	71.9	72.2
Imperial Hyw, between Garfield Ave and Old River School Rd	Hard	50	40	40	40	3324	69	34	71.8	72.1
Imperial Hyw, between Old River School Rd and Erickson Ave	Hard	55	40	40	40	1824	38	19	68.8	69.1
Imperial Hyw, between Erickson Ave and Paramount Blvd	Hard	50	40	40	40	1619	33	17	68.7	69.0
Imperial Hyw, between Paramount Blvd and Lakewood Blvd	Hard	65	40	40	40	2848	59	29	70.0	70.3
Garfield Ave, between Imperial Hwy and Gardendale St	Hard	50	35	35	35	1932	40	20	67.8	68.1
Garfield Ave, between Gardendale St and Monroe Avenue	Hard	40	35	35	35	1554	32	16	67.9	68.2
Garfield Ave, between Monroe Avenue and Main St	Hard	40	35	35	35	1618	33	17	68.0	68.3
Garfield Ave, between Main St and N. Somerset Ranch Road	Hard	50	35	35	35	1771	37	18	67.5	67.8
Paramoun Blvd, between Imperial Hwy and Gardendale St	Hard	50	40	40	40	2214	46	23	70.0	70.3
Paramoun Blvd, between Gardendale St and N. Somerset Ranch Rd	Hard	50	40	40	40	2414	50	25	70.4	70.7
Erickson Ave, between Imperial Hwy and Gardendale St	Hard	25	25	25	25	206	4	0	56.8	57.1
Main St, between Garfield Ave and Industrial Ave	Hard	30	35	35	35	421	9	0	62.8	63.1
Arizona Ave, between Gardendale St and Main St	Hard	25	25	25	25	55	1	0	51.1	51.4

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.
CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: Rancho Los Amigos South Campus
Project Number: D170230
Analysis Scenario: Existing With Project
Source of Traffic Volumes: National Data & Surveying Services.

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Gardendale St, between Garfield Ave and Monroe Ave	Hard	45	35	35	35	1469	30	15	67.1	67.4
Gardendale St, between Monroe Ave and Industrial Ave	Hard	45	35	35	35	1560	32	16	67.4	67.7
Gardendale St, between Industrial Ave and Erickson Ave	Hard	45	35	35	35	1554	32	16	67.4	67.7
Gardendale St, between Erickson Ave and Arizona Ave	Hard	45	35	35	35	1584	33	16	67.4	67.7
Gardendale St, between Arizona Ave and Paramount Blvd	Hard	45	35	35	35	1536	32	16	67.3	67.6
Gardendale St, between Paramount Blvd and Downey Ave	Hard	35	35	35	35	1541	32	16	68.4	68.7
Gardendale St, between Downey Ave and N. Somerset Road-Brookshire Ave	Hard	40	35	35	35	1453	30	15	67.6	67.9
Gardendale St, between N. Somerset Road-Brookshire Ave and Lakewood Blvd	Hard	40	35	35	35	1683	35	17	68.2	68.5
Imperial Hyw, between Ruchti Rd-Garfield Pl and Garfield Ave	Hard	50	40	40	40	3624	75	37	72.2	72.5
Imperial Hyw, between Garfield Ave and Old River School Rd	Hard	50	40	40	40	3554	73	37	72.1	72.4
Imperial Hyw, between Old River School Rd and Erickson Ave	Hard	55	40	40	40	2215	46	23	69.6	69.9
Imperial Hyw, between Erickson Ave and Paramount Blvd	Hard	50	40	40	40	1853	38	19	69.2	69.5
Imperial Hyw, between Paramount Blvd and Lakewood Blvd	Hard	65	40	40	40	2915	60	30	70.1	70.4
Garfield Ave, between Imperial Hwy and Gardendale St	Hard	50	35	35	35	1980	41	20	68.0	68.3
Garfield Ave, between Gardendale St and Monroe Avenue	Hard	40	35	35	35	1730	36	18	68.3	68.6
Garfield Ave, between Monroe Avenue and Main St	Hard	40	35	35	35	1804	37	19	68.5	68.8
Garfield Ave, between Main St and N. Somerset Ranch Road	Hard	50	35	35	35	1981	41	20	68.0	68.3
Paramoun Blvd, between Imperial Hwy and Gardendale St	Hard	50	40	40	40	2214	46	23	70.0	70.3
Paramoun Blvd, between Gardendale St and N. Somerset Ranch Rd	Hard	50	40	40	40	2588	53	27	70.7	71.0
Erickson Ave, between Imperial Hwy and Gardendale St	Hard	25	25	25	25	777	16	0	62.6	62.9
Main St, between Garfield Ave and Industrial Ave	Hard	30	35	35	35	471	10	0	63.3	63.6
Arizona Ave, between Gardendale St and Main St	Hard	25	25	25	25	71	1	0	52.2	52.5

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.
CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: Rancho Los Amigos South Campus
Project Number: D170230
Analysis Scenario: Future
Source of Traffic Volumes: National Data & Surveying Services.

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Gardendale St, between Garfield Ave and Monroe Ave	Hard	45	35	35	35	1249	26	13	66.4	66.7
Gardendale St, between Monroe Ave and Industrial Ave	Hard	45	35	35	35	1332	27	14	66.7	67.0
Gardendale St, between Industrial Ave and Erickson Ave	Hard	45	35	35	35	1315	27	14	66.6	66.9
Gardendale St, between Erickson Ave and Arizona Ave	Hard	45	35	35	35	1310	27	14	66.6	66.9
Gardendale St, between Arizona Ave and Paramount Blvd	Hard	45	35	35	35	1353	28	14	66.8	67.1
Gardendale St, between Paramount Blvd and Downey Ave	Hard	35	35	35	35	1420	29	15	68.1	68.4
Gardendale St, between Downey Ave and N. Somerset Road-Brookshire Ave	Hard	40	35	35	35	1401	29	14	67.4	67.7
Gardendale St, between N. Somerset Road-Brookshire Ave and Lakewood Blvd	Hard	40	35	35	35	1641	34	17	68.1	68.4
Imperial Hyw, between Ruchti Rd-Garfield Pl and Garfield Ave	Hard	50	40	40	40	3506	72	36	72.0	72.3
Imperial Hyw, between Garfield Ave and Old River School Rd	Hard	50	40	40	40	3372	70	35	71.8	72.1
Imperial Hyw, between Old River School Rd and Erickson Ave	Hard	55	40	40	40	1850	38	19	68.8	69.1
Imperial Hyw, between Erickson Ave and Paramount Blvd	Hard	50	40	40	40	1649	34	17	68.7	69.0
Imperial Hyw, between Paramount Blvd and Lakewood Blvd	Hard	65	40	40	40	2931	60	30	70.1	70.4
Garfield Ave, between Imperial Hwy and Gardendale St	Hard	50	35	35	35	2010	41	21	68.0	68.3
Garfield Ave, between Gardendale St and Monroe Avenue	Hard	40	35	35	35	1599	33	16	68.0	68.3
Garfield Ave, between Monroe Avenue and Main St	Hard	40	35	35	35	1667	34	17	68.2	68.5
Garfield Ave, between Main St and N. Somerset Ranch Road	Hard	50	35	35	35	1819	38	19	67.6	67.9
Paramoun Blvd, between Imperial Hwy and Gardendale St	Hard	50	40	40	40	2231	46	23	70.1	70.4
Paramoun Blvd, between Gardendale St and N. Somerset Ranch Rd	Hard	50	40	40	40	2485	51	26	70.5	70.8
Erickson Ave, between Imperial Hwy and Gardendale St	Hard	25	25	25	25	231	5	0	57.3	57.6
Main St, between Garfield Ave and Industrial Ave	Hard	30	35	35	35	471	10	0	63.3	63.6
Arizona Ave, between Gardendale St and Main St	Hard	25	25	25	25	68	1	0	52.0	52.3

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.
CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: Rancho Los Amigos South Campus
Project Number: D170230
Analysis Scenario: Future With Project
Source of Traffic Volumes: National Data & Surveying Services.

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Gardendale St, between Garfield Ave and Monroe Ave	Hard	45	35	35	35	1530	32	16	67.3	67.6
Gardendale St, between Monroe Ave and Industrial Ave	Hard	45	35	35	35	1625	34	17	67.6	67.9
Gardendale St, between Industrial Ave and Erickson Ave	Hard	45	35	35	35	1619	33	17	67.5	67.8
Gardendale St, between Erickson Ave and Arizona Ave	Hard	45	35	35	35	1649	34	17	67.6	67.9
Gardendale St, between Arizona Ave and Paramount Blvd	Hard	45	35	35	35	1601	33	17	67.5	67.8
Gardendale St, between Paramount Blvd and Downey Ave	Hard	35	35	35	35	1572	32	16	68.5	68.8
Gardendale St, between Downey Ave and N. Somerset Road-Brookshire Ave	Hard	40	35	35	35	1495	31	15	67.7	68.0
Gardendale St, between N. Somerset Road-Brookshire Ave and Lakewood Blvd	Hard	40	35	35	35	1735	36	18	68.4	68.7
Imperial Hyw, between Ruchti Rd-Garfield Pl and Garfield Ave	Hard	50	40	40	40	3740	77	39	72.3	72.6
Imperial Hyw, between Garfield Ave and Old River School Rd	Hard	50	40	40	40	3602	74	37	72.1	72.4
Imperial Hyw, between Old River School Rd and Erickson Ave	Hard	55	40	40	40	2241	46	23	69.7	70.0
Imperial Hyw, between Erickson Ave and Paramount Blvd	Hard	50	40	40	40	1883	39	19	69.3	69.6
Imperial Hyw, between Paramount Blvd and Lakewood Blvd	Hard	65	40	40	40	2998	62	31	70.2	70.5
Garfield Ave, between Imperial Hwy and Gardendale St	Hard	50	35	35	35	2058	42	21	68.1	68.4
Garfield Ave, between Gardendale St and Monroe Avenue	Hard	40	35	35	35	1775	37	18	68.4	68.7
Garfield Ave, between Monroe Avenue and Main St	Hard	40	35	35	35	1853	38	19	68.6	68.9
Garfield Ave, between Main St and N. Somerset Ranch Road	Hard	50	35	35	35	2030	42	21	68.1	68.4
Paramoun Blvd, between Imperial Hwy and Gardendale St	Hard	50	40	40	40	2231	46	23	70.1	70.4
Paramoun Blvd, between Gardendale St and N. Somerset Ranch Rd	Hard	50	40	40	40	2660	55	27	70.8	71.1
Erickson Ave, between Imperial Hwy and Gardendale St	Hard	25	25	25	25	801	16	0	62.7	63.0
Main St, between Garfield Ave and Industrial Ave	Hard	30	35	35	35	521	11	0	63.7	64.0
Arizona Ave, between Gardendale St and Main St	Hard	25	25	25	25	83	2	0	52.9	53.2

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.
CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

APPENDIX H

Rancho Los Amigos South Campus Traffic Impact Study

ESA

LINSCOTT LAW & GREENSPAN engineers

TRAFFIC IMPACT STUDY

RANCHO LOS AMIGOS SOUTH CAMPUS

City of Downey, California
July 8, 2019

Prepared for:

County of Los Angeles, Department of Public Works
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803

LLG Ref. 5-17-0354-1



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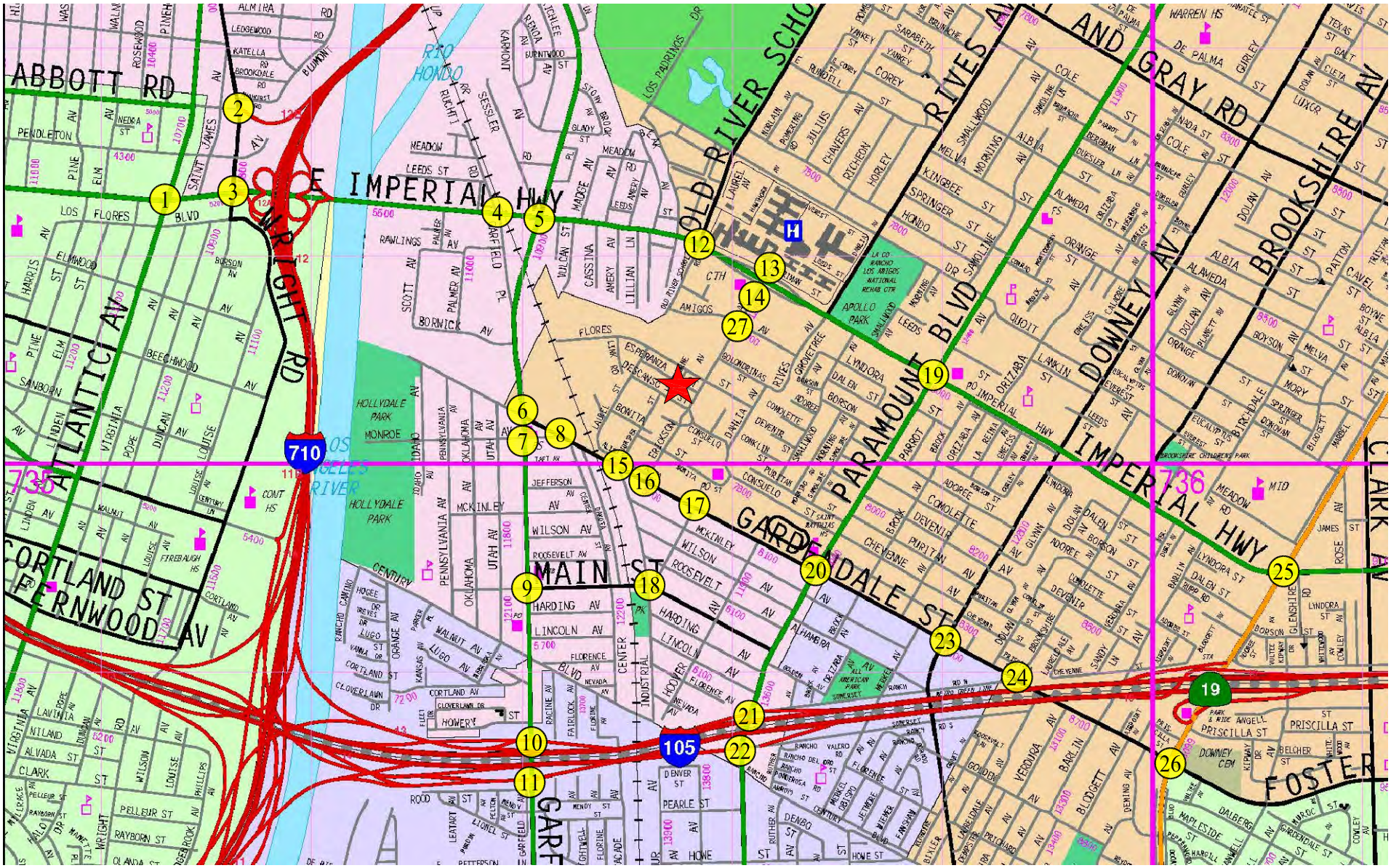
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1.0 INTRODUCTION

This traffic analysis has been conducted to identify and evaluate the potential traffic impacts generated by the proposed Rancho Los Amigos South Campus project located on land owned by the County of Los Angeles (County) in the City of Downey. The project applicant proposes to construct three new County administrative uses serving up to 3,000 employees: the Internal Services Department (ISD) Headquarters, Probation Department Headquarters, and a County Office Building. The project site is bound by Flores Street and Golondrinas Street to the north, Gardendale Street to the south, Laurel Street to the west, the Union Pacific Railroad to the southwest, Rives Avenue and Dahlia Avenue to the east, and a strip that runs east along Consuelo Street to Paramount Boulevard. The project site location and general vicinity are shown in ***Figure 1–1***.

The traffic analysis follows Los Angeles County Department of Public Works (LACDPW) traffic study guidelines[1] and is consistent with traffic impact assessment guidelines set forth in the Los Angeles County Congestion Management Program[2]. This traffic analysis evaluates potential project-related impacts at 27 key intersections in the vicinity of the project site, which were identified as those intersections that could potentially be most affected by traffic generated by the proposed project. The study intersections were determined in consultation with LACDPW Traffic and Lighting Division staff, as well as transportation staff at the City of Downey, City of South Gate, City of Paramount, and City of Lynwood. The Intersection Capacity Utilization (ICU) method was used to determine Volume-to-Capacity (*v/c*) ratios and corresponding Levels of Service (LOS) for the signalized study intersections located within the City of Downey, City of South Gate, City of Paramount, and the County of Los Angeles. The Highway Capacity Manual (HCM) method was used to determine Control Delays and corresponding Levels of Service (LOS) for the unsignalized study intersections. The Critical Movement Analysis (CMA) method was used to determine Volume-to-Capacity (*v/c*) ratios and corresponding Levels of Service (LOS) for the study intersection located within the City of Lynwood. A review was also conducted of Los Angeles County Metropolitan Transportation Authority freeway and intersection monitoring stations to determine if a Congestion Management Program (CMP) transportation impact assessment analysis is required for the proposed project.

[1] County of Los Angeles' *Traffic Impact Analysis Report Guidelines*, January 1997.
[2] *2010 Congestion Management Program*, Los Angeles County Metropolitan Transportation Authority, 2010.



NOT TO SCALE

MAP SOURCE: RAND MCNALLY & COMPANY

★ PROJECT SITE

(XX) STUDY INTERSECTION

FIGURE 1-1
VICINITY MAP

LINSCOTT, LAW & GREENSPAN, engineers

RANCHO LOS AMIGOS SOUTH CAMPUS

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This study (i) presents existing traffic volumes, (ii) includes existing traffic volumes with the forecast net new traffic volumes from the proposed project, (iii) forecasts future cumulative traffic volumes with and without the proposed project, (iv) recommends mitigation measures, where feasible to address significant impacts, and (v) provides an assessment of construction-related traffic impacts.

1.1 Study Area

Upon coordination with LACDPW Traffic and Lighting staff, as well as consultation with nearby cities, 27 study intersections have been identified for evaluation during the weekday morning and afternoon peak hours. The 27 study intersections provide local access to the study area and define the extent of the boundaries for this traffic impact analysis. Further discussion of the existing street system and study area is provided in Section 4.0.

The general location of the project in relation to the study intersection locations and surrounding street system is presented in *Figure 1–1*. The traffic analysis study area is generally comprised of those locations which have the potential to experience significant traffic impacts due to the proposed project. In the traffic engineering practice, the study area generally includes those intersections that are:

a. Immediately adjacent or in close proximity to the project site;

b. In the vicinity of the project site that are documented to have current or projected future operational issues; and

c. In the vicinity of the project site that are forecast to experience a relatively greater percentage of project-related vehicular turning movements (e.g., at freeway ramp intersections).

The locations selected for analysis were based on the above criteria, the forecast Rancho Los Amigos South Campus project peak hour vehicle trip generation, consultation with staff from the LACDPW Traffic and Lighting Division and adjacent cities, the anticipated distribution of project vehicular trips, and existing intersection/corridor operations.

2.0 PROJECT DESCRIPTION

2.1 Site Location

The site of the proposed Rancho Los Amigos South Campus project is located on the south side of Flores Street on 74 acres of County-owned land in the City of Downey, California. The project site is bound by Flores Street and Golondrinas Street to the north, Gardendale Street to the south, Laurel Street to the west, the Union Pacific Railroad to the southwest, Rives Avenue and Dahlia Avenue to the east, and a strip that runs east along Consuelo Street to Paramount Boulevard. The area in which new County buildings and infrastructure are proposed (the Development Area; 28 acres) is bound by Flores Street and Golondrinas Street to the north, the parking lot adjacent to Dahlia Street and the Assistance League of Downey to the east, a mid-block between Descanso Street and Bonita Street to the south, and Laurel Avenue to the west. The project site location and general vicinity are shown in *Figure 1–1*.

2.2 Existing Project Site

The existing project site contains approximately 107 County-owned buildings and structures, as well as two other features, including a Moreton Bay Fig Tree and the Ranch Los Amigos Site Plan, resulting in approximately 109 total features on the project site, many of which are varying in degrees of abandonment and deterioration. Many of the buildings on the existing project site have been boarded-up since roughly 1991. The project site is currently unoccupied with the exception of LACO No. 1100, Administration/Safety Police Building that currently houses the County Office of Public Safety including approximately 50 employees, and LACO No. 3591, which houses the City of Downey's Rose Float Association operations (minimal seasonal staff). These uses would continue in their current operation. Some other buildings are used for maintenance and storage (LACO Nos. 7000 and 1286). Access to the interior of the project site is not available to the public, as an eight-foot chain link fence surrounds the perimeter of the project site.

2.3 Proposed Project Description

The Rancho Los Amigos South Campus project proposes to develop three new County administrative buildings on the existing project site. The ISD Headquarters (up to 315,000 square feet), Probation Department Headquarters (up to 168,000 square feet), and the County Office Building (up to 167,000 square feet) and associated parking and infrastructure would be constructed within the 35-acre Development Area, in the northern part of the project site. In total, up to 650,000 square feet of net new building floor area is proposed to be developed, accommodating up to 3,000 County employees (not including the existing uses). Construction and occupancy of the proposed project is anticipated to be completed by the year 2021. Nearly all buildings and landscape features would be demolished, except for three buildings and the Moreton Bay Fig Tree which would remain on the project site. One building is the County Office of Public Safety building, which will remain in its current use. The two other buildings are currently closed and vacant, and there is no proposal to occupy these buildings in the future. The proposed site plan for the proposed project is illustrated in ***Figure 2–1***.



NOT TO SCALE

MAP SOURCE: GENSLER

FIGURE 2-1
PROJECT SITE PLAN

LINSCOTT, LAW & GREENSPAN, engineers

RANCHO LOS AMIGOS SOUTH CAMPUS

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Vehicular access would be provided via Erickson Avenue and Flores Street. Further discussion of the project site access and circulation schemes is provided in Section 3.0.

County staff proposed to be accommodated at the new buildings currently work at existing facilities, many of which are in proximity to the project site. ***Table 2–1*** provides a summary of the staff anticipated to be relocated to the new buildings on the site in conjunction with the project. Some of the existing staffing sites are located two or more miles away from the project site. There is the potential for other County departments to backfill the existing buildings to be vacated as a part of this project, or for some of the existing County-owned buildings to be sold; however, it is speculative at this time to anticipate the long-term use of these buildings. Nevertheless, this traffic study conservatively assumes that all relocated County workers would generate "new" vehicle trips that would be added to traffic volumes on the local street system.

Table 2-1
LOS ANGELES COUNTY DEPARTMENTS AFFECTED BY THE PROPOSED PROJECT [1]

07-Mar-19

DEPARTMENT NAME	NUMBER OF STAFF TO BE RELOCATED	COUNTY OWNED OR LEASED	APPROXIMATE DISTANCE FROM PROJECT SITE
Probation Department Staff Relocated to Rancho South Campus			
9150 E. Imperial Highway, Downey (Probation HQ/ISD HQ - County-Owned)	688	County-Owned	2.0 Miles East
9525 E. Imperial Highway, Downey (Probation Lease)	109	Probation Lease	3.0 Miles East
11701 S. Alameda Street, Lynwood (County-Owned)	122	County-Owned	6.1 Miles West
7639 S. Painter Avenue, Whittier (County-Owned)	31	County-Owned	12.0 Miles Northeast
1299 W. Artesia Boulevard, Suite 120, Artesia (Probation Lease)	10	Probation Lease	8.0 Miles Southwest
Total	**960**		
ISD Staff Relocated to Rancho South Campus			
9150 E. Imperial Highway, Downey (Probation HQ/ISD Admin - County-Owned)	892	County-Owned	2.0 miles East
1100 N. Eastern Avenue, Los Angeles (ISD HQ - County-Owned)	688	County-Owned	11.0 Miles North
12750 Center Court Drive, Cerritos (ISD Lease)	30	ISD Lease	10.0 Miles Southeast
Total	**1610**		
TOTAL STAFF RELOCATED TO RANCHO SOUTH CAMPUS	**2570**		

[1] Sources: County of Los Angeles Department of Public Works, 2019

3.0 SITE ACCESS AND CIRCULATION

A proposed site access plan for the Rancho Los Amigos project is displayed in *Figure 2–1*. A description of proposed site access and circulation is provided in the following subsections.

3.1 Existing Vehicular Site Access

Vehicular access to the project site from the general public is not permitted, as the project site is currently gated. However, historically, Erickson Avenue served as the primary access into the project site (from Imperial Avenue to the north and Gardendale to the south), as well as access from the east from Consuelo Street. The existing 50 employees at the County Office of Public Safety use these access points.

3.2 Vehicular Project Site Access

A secured Level 1 (ground floor) public entrance to the project site would be provided from Golondrinas Street, which is currently gated and does not allow for regular vehicle access. A dedicated entrance from the secured parking area to the ISD and Probation Department Headquarters buildings would also be provided. Off-campus visitors would arrive on campus through a new parking structure. The parking structure would contain a minimum of two vehicular entry/exit locations from either the extended Rives Avenue and/or Golondrinas Street, as well as two pedestrian access points. Loading docks for the ISD and Probation Department Headquarters buildings are proposed to be located along Rives Avenue. The loading docks are proposed to be integrated into the building façade and be fully screened.

The County Office Building and associated parking structure would be accessed from vehicular entry/exit points from Flores Avenue and Laurel Street, and will be fully contained within the security wall with controlled access through ingress and egress gates. The primary access point for the County Office Building would be set back from the street and may include a covered entry.

As described in Section 7.2, while the vehicular access points for the parking structures serving the ISD and Probation Department Headquarters buildings and County Office Building have not been finalized, the actual driveways will not affect the assumed assignment of project-related trips to the analyzed study intersections.

4.0 EXISTING STREET SYSTEM

4.1 Regional Highway System

Primary regional access is provided by the I-105 (Century) Freeway and I-710 (Long Beach) Freeway, as shown in *Figure 1-1*. A brief description of the I-105 and I-710 freeways are provided in the following paragraphs.

I-105 (Century) Freeway is an east-west freeway that extends from El Segundo to Norwalk. In the project vicinity, one HOV lane and three to four mixed-flow travel lanes are provided in each direction. Eastbound and westbound ramps are provided on the I-105 Freeway at Garfield Avenue and Paramount Boulevard in the project vicinity.

I-710 (Long Beach) Freeway is a north-south freeway that extends from Alhambra to Long Beach. In the project vicinity, four mixed-flow travel lanes are provided in each direction on the I-710 Freeway. Northbound and southbound ramps are provided on the I-710 Freeway at Imperial Highway in the project vicinity.

4.2 Local Street System

The following intersections (and their jurisdictional authority were selected in consultation with LACDPW Traffic and Lighting Division staff (as well as staff from adjacent cities) for analysis of potential traffic impacts due to the proposed project:

1. Atlantic Avenue / Imperial Highway (City of Lynwood)
2. Wright Road / Abbott Road – I-710 Southbound Off-Ramp (City of South Gate)
3. Wright Road / Imperial Highway (City of Lynwood / City of South Gate)
4. Ruchti Road-Garfield Place / Imperial Highway (City of South Gate)
5. Garfield Avenue / Imperial Highway (City of South Gate)
6. Garfield Avenue / Gardendale Street (City of Downey / City of South Gate)
7. Garfield Avenue / Monroe Avenue (City of South Gate) [Unsignalized]
8. Gardendale Street / Monroe Avenue (City of South Gate) [Unsignalized]
9. Garfield Avenue / Main Street (City of South Gate)
10. Garfield Avenue / N. Somerset Ranch Road (City of Paramount)
11. Garfield Avenue / S. Somerset Ranch Road (City of Paramount)
12. Old River School Road / Imperial Highway (City of Downey)
13. Erickson Avenue / W. Imperial Highway (City of Downey / County of Los Angeles) [Unsignalized]
14. Erickson Avenue / E. Imperial Highway (City of Downey / County of Los Angeles) [Unsignalized]

15. Industrial Avenue / Gardendale Street (City of Downey / City of South Gate) [Unsignalized]
16. Erickson Avenue / Gardendale Street (City of Downey / City of South Gate / County of Los Angeles) [Unsignalized]
17. Arizona Avenue / Gardendale Street (City of Downey / City of South Gate) [Unsignalized]
18. Industrial Avenue – Arizona Avenue / Gardendale Street (City of South Gate) [Unsignalized]
19. Paramount Boulevard / Imperial Highway (City of Downey)
20. Paramount Boulevard / Gardendale Street (City of Downey / City of South Gate / City of Paramount)
21. Paramount Boulevard / N. Somerset Ranch Road (City of South Gate)
22. Paramount Boulevard / S. Somerset Ranch Road (City of South Gate)
23. Downey Avenue / Gardendale Street (City of Downey / City of Paramount)
24. Brookshire Avenue – N. Somerset Ranch Road / Gardendale Street (City of Downey)
25. Lakewood Boulevard / Imperial Highway (City of Downey)
26. Lakewood Boulevard / Gardendale Street (City of Downey)
27. Erickson Avenue / Amigos Avenue (City of Downey / County of Los Angeles) [Unsignalized]

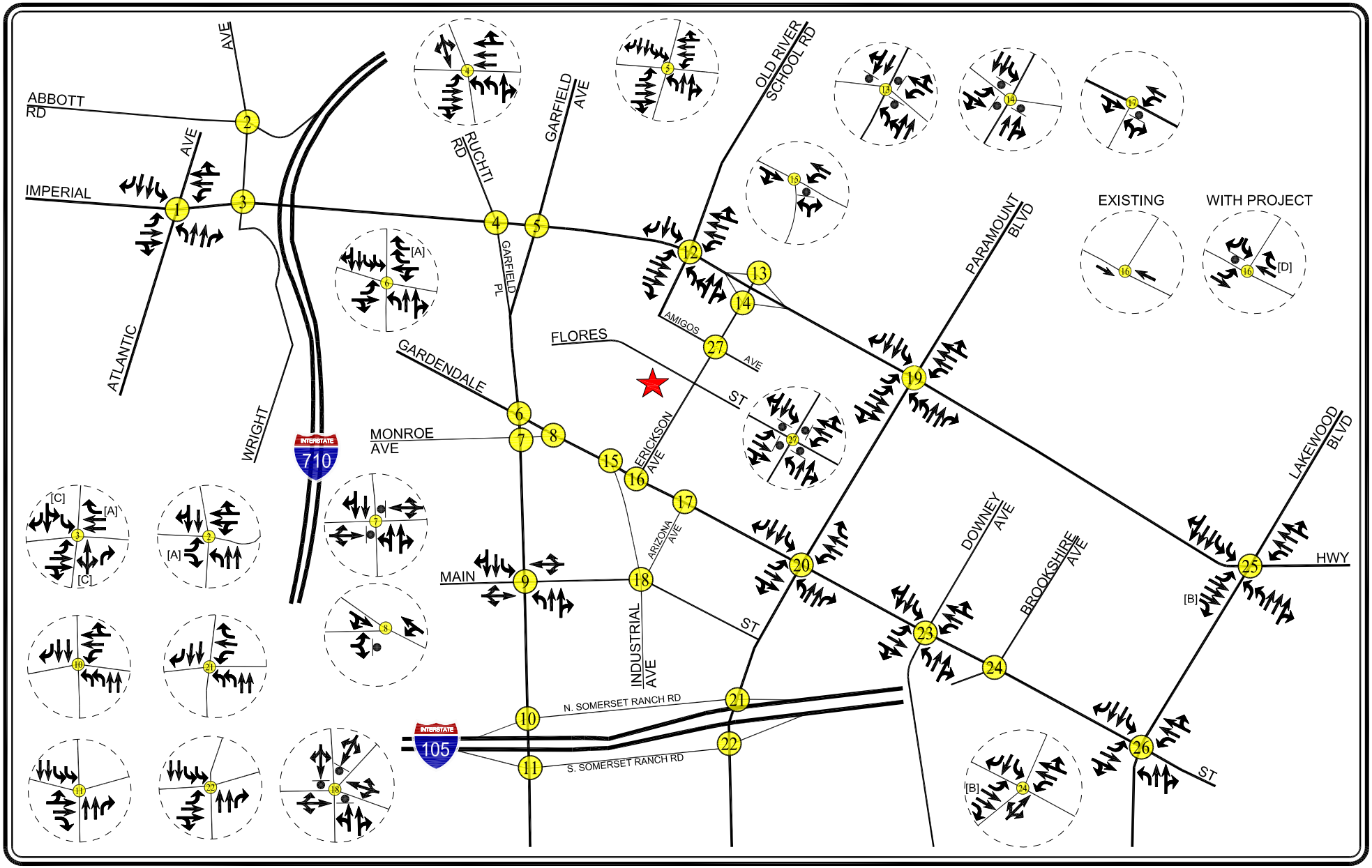
Eighteen of the 27 study intersections selected for analysis are presently controlled by traffic signals, while nine of the intersections are stop-controlled. The existing lane configurations at the study intersections are displayed in ***Figure 4–1.***

4.3 Roadway Descriptions

A brief description of the roadways in the project vicinity is provided in the following paragraphs.

Atlantic Avenue is a north-south oriented roadway located west of the project site. In the project vicinity, Atlantic Avenue is designated as an Arterial Street in the City of Lynwood General Plan. Two through travel lanes are provided in each direction on Atlantic Avenue within the project vicinity. Separate exclusive left-turn and right-turn lanes are provided on Atlantic Avenue at the Imperial Highway intersection. Atlantic Avenue is posted for a 35 miles per hour speed limit in the project vicinity.

Wright Road is a north-south oriented roadway located west of the project site. In the project vicinity, Wright Road is designated as a Collector Street in the City of Lynwood General Plan and as a Collector Street in the City of South Gate Mobility Element. One through travel lane is



NOT TO SCALE

- PROJECT SITE
- XX STUDY INTERSECTION
- [A] = RIGHT-TURN OVERLAP
- [B] = FREE-FLOW RIGHT TURN
- [C] = SPLIT PHASING
- [D] = DEFACTO RIGHT-TURN
- STOP SIGN

FIGURE 4-1
EXISTING LANE CONFIGURATIONS

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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provided in each direction on Wright Road within the project vicinity. Separate exclusive left-turn lanes are provided on Wright Road at the I-710 Southbound Off-Ramp-Abbott Road intersection, as well as in the southbound direction at the Imperial Highway intersection. Wright Road is posted for a 35 miles per hour speed limit north of Imperial Highway, and for a 25 miles per hour speed limit south of Imperial Highway in the project vicinity.

Ruchti Road is a north-south oriented roadway located west of the project site. In the project vicinity, Ruchti Road is designated as a Collector Street in the City of South Gate Mobility Element. One through travel lane is provided in each direction on Ruchti Road within the project vicinity. South of Imperial Highway, Ruchti Road becomes Garfield Place. There is no speed limit posted on Ruchti Road, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Garfield Place is a north-south oriented roadway located west of the project site. In the project vicinity, Garfield Place is designated as a Collector Street in the City of South Gate Mobility Element. Two through travel lanes are provided in each direction on Garfield Place within the project vicinity. Separate exclusive left-turn lanes are provided on Garfield Place in the northbound direction at the Imperial Highway intersection. North of Imperial Highway, Garfield Place becomes Ruchti Road. Garfield Place is posted for a 35 miles per hour speed limit in the project vicinity.

Garfield Avenue is a north-south oriented roadway located west of the project site. In the project vicinity, Garfield Avenue is designated as a Primary Arterial in the City of South Gate Mobility Element, as a Primary Arterial in the City of Downey Circulation Plan, and as a Major Arterial in the City of Paramount General Plan. Two through travel lanes are provided in each direction on Garfield Avenue within the project vicinity. Separate exclusive left-turn lanes are provided at major intersections along Garfield Avenue in the project vicinity. Separate exclusive right-turn lanes are provided on Garfield Avenue in the southbound direction at the Gardendale Street intersection, in the southbound direction at the N. Somerset Ranch Road intersection, and in the northbound direction at the S. Somerset Ranch Road intersection. Garfield Avenue is posted for a 35 miles per hour speed limit in the project vicinity.

Old River School Road is a north-south oriented roadway located west of the project site. In the project vicinity, Old River School Road is designated as a Primary Arterial in the City of Downey Circulation Plan. Two through travel lanes are provided in each direction on Old River School Road within the project vicinity. Separate exclusive left-turn lanes are provided on Old River School Road at the Imperial Highway intersection, and separate exclusive right-turn lanes are provided in the southbound direction on Old River School Road at the Imperial Highway intersection. Old River School Road is posted for a 40 miles per hour speed limit in the project vicinity.

Erickson Avenue is a north-south oriented roadway that provides immediate access to the project site. In the project vicinity, Erickson Avenue is designated as a Collector Street in the City of Downey Circulation Plan. Two through travel lanes are provided in each direction on Erickson Avenue within the project vicinity. Separate exclusive left-turn and right-turn lanes are provided

at major intersections along Erickson Avenue in the project vicinity. Under existing conditions, Erickson Avenue is gated at the Gardendale Street intersection. The gate would be removed to allow access to Erickson Avenue from Gardendale Street as part of the project. There is no speed limit posted on Erickson Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Laurel Avenue is a north-south oriented roadway that provides immediate access to the project site. In the project vicinity, Laurel Avenue is designated as a Collector Street in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Laurel Avenue within the project vicinity. Under existing conditions, Laurel Avenue is gated off at the Flores Street intersection. The gate would be removed to allow access to Laurel Avenue from Flores Street as part of the project. There is no speed limit posted on Laurel Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Juniper Street is a north-south oriented roadway that provides immediate access to the project site. In the project vicinity, Juniper Street is designated as a Collector Street in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Juniper Street within the project vicinity. Under existing conditions, Juniper Street is located within the gated-off area surrounding the project site. The gate would be removed to allow access to Juniper Street from Descanso Street as part of the project. There is no speed limit posted on Juniper Street, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Dahlia Avenue is a north-south oriented roadway that provides immediate access to the project site. In the project vicinity, Dahlia Avenue is designated as a Collector Street in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Dahlia Avenue within the project vicinity. There is no speed limit posted on Dahlia Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code. Dahlia Avenue would be rerouted as part of the project to serve the easternmost portion of the project site.

Industrial Avenue is a north-south oriented roadway located south of the project site. In the project vicinity, Industrial Avenue is designated as a Collector Street in the City of South Gate Mobility Element. One through travel lane is provided in each direction on Industrial Avenue within the project vicinity. There is no speed limit posted on Industrial Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Arizona Avenue is a north-south oriented roadway located south of the project site. In the project vicinity, Arizona Avenue is designated as a Collector Street in the City of South Gate Mobility Element. One through travel lane is provided in each direction on Arizona Avenue within the project vicinity. There is no speed limit posted on Arizona Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Paramount Boulevard is a north-south oriented roadway located east of the project site. In the project vicinity, Paramount Boulevard is designated as a Major Arterial in the City of Downey Circulation Plan, as a Major Arterial in the City of Paramount General Plan, and as a Primary Arterial in the City of South Gate Mobility Element. Two through travel lanes are provided in each direction on Paramount Boulevard within the project vicinity. Separate exclusive left-turn and right-turn lanes are provided along Paramount Boulevard at major intersections in the project vicinity. Paramount Boulevard is posted for a 35-40 miles per hour speed limit in the project vicinity.

Downey Avenue is a north-south oriented roadway located east of the project site. In the project vicinity, Downey Avenue is designated as a Primary Arterial in the City of Downey Circulation Plan, and as a Secondary Arterial in the City of Paramount General Plan. Two through travel lanes are provided in each direction on Downey Avenue within the project vicinity. Separate exclusive left-turn lanes are provided along Downey Avenue at major intersections in the project vicinity. Downey Avenue is posted for a 40 miles per hour speed limit in the project vicinity.

Brookshire Avenue is a north-south oriented roadway located east of the project site. In the project vicinity, Brookshire Avenue is designated as a Primary Arterial in the City of Downey Circulation Plan. Two through travel lanes are provided in each direction on Brookshire Avenue within the project vicinity. Separate exclusive left-turn and right turn lanes are provided on Brookshire Avenue at the Gardendale Street intersection in the project vicinity. South of Gardendale Street, Brookshire Avenue becomes N. Somerset Ranch Road. Brookshire Avenue is posted for a 40 miles per hour speed limit in the project vicinity.

Lakewood Boulevard is a north-south oriented roadway located east of the project site. In the project vicinity, Lakewood Boulevard is designated as a Major Arterial in the City of Downey Circulation Plan. Two to three through travel lanes are provided in each direction on Lakewood Boulevard within the project vicinity. Separate exclusive left-turn lanes are provided along Lakewood Boulevard at major intersections in the project vicinity. Separate exclusive right-turn lanes are provided on Lakewood Boulevard in the southbound direction at the Gardendale Street intersection. Lakewood Boulevard is posted for a 40 miles per hour speed limit in the project vicinity.

Imperial Highway is an east-west oriented roadway located north of the project site. In the project vicinity, Imperial Highway is designated as an Arterial Street in the City of Lynwood General Plan, as a Primary Arterial in the City of South Gate Mobility Element, and as a Major Arterial in the City of Downey Circulation Plan. Two to three through travel lanes are provided in each direction on Imperial Highway within the project vicinity. Separate exclusive left-turn lanes are provided at major intersections along Imperial Highway in the project vicinity. Separate exclusive right-turn lanes are provided on Imperial Highway in the westbound direction at the Wright Road intersection, and in the eastbound direction at the Old River School Road and Lakewood Boulevard intersections. Imperial Highway is posted for a 40 miles per hour speed limit in the project vicinity.

Abbott Road is an east-west oriented roadway that is located west of the project site. Within the project vicinity, Abbott Road is designated as a Collector Street in the City of Lynwood General Plan. Two through travel lanes are provided in each direction on Abbott Road within the project vicinity. Separate exclusive left-turn and right-turn lanes are provided on Abbott Road at the Wright Road intersection. Abbott Road is posted for a 35 miles per hour speed limit in the project vicinity.

Gardendale Street is an east-west oriented roadway located south of the project site. In the project vicinity, Gardendale Street is designated as a Secondary Arterial in the City of South Gate Mobility Plan, and as a Secondary Arterial in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Gardendale Street within the project vicinity. Separate exclusive left-turn lanes are provided along Gardendale Street at major intersections in the project vicinity. Separate exclusive right-turn lanes are provided in the westbound direction on Gardendale Street at the Garfield Avenue intersection. Gardendale Street is posted for a 35 miles per hour speed limit in the project vicinity.

Amigos Avenue is an east-west oriented roadway that provides immediate access to the project site. In the project vicinity, Amigos Avenue is designated as a Collector Street in the City of Downey Circulation Plan. Two through travel lanes are provided in each direction on Esperanza Street within the project vicinity. There is no speed limit posted on Amigos Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Flores Street is an east-west oriented roadway that provides immediate access to the project site. In the project vicinity, Flores Street is designated as a Collector Street in the City of Downey Circulation Plan. Two through travel lanes are provided in each direction on Flores Street within the project vicinity. There is no speed limit posted on Flores Street, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Esperanza Street is an east-west oriented roadway that provides immediate access to the project site. In the project vicinity, Esperanza Street is designated as a Collector Street in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Esperanza Street within the project vicinity. Under existing conditions, Esperanza Street is gated off at the Erickson Avenue intersection. The gate would be removed to allow access to Esperanza Street from Erickson Avenue as part of the project. There is no speed limit posted on Esperanza Street, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Descanso Street is an east-west oriented roadway that provides immediate access to the project site. In the project vicinity, Descanso Street is designated as a Collector Street in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Descanso Street within the project vicinity. Under existing conditions, Descanso Street is gated off at the Erickson Avenue intersection. The gate would be removed to allow access to Descanso Street from Erickson Avenue as part of the project. There is no speed limit posted on Descanso Street,

thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Bonita Street is an east-west oriented roadway that provides immediate access to the project site. In the project vicinity, Bonita Street is designated as a Collector Street in the City of Downey Circulation Plan. One through travel lane is provided in each direction on Bonita Street within the project vicinity. Under existing conditions, Bonita Street is located within the gated-off area surrounding the project site. The gate would be removed to allow access to Bonita Street as part of the project. There is no speed limit posted on Bonita Street, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Monroe Avenue is an east-west oriented roadway located south of the project site. In the project vicinity, Monroe Avenue is designated as a Collector Street in the City of South Gate Mobility Element. One through travel lane is provided in each direction on Monroe Avenue within the project vicinity. There is no speed limit posted on Monroe Avenue, thus a prima facie speed limit of 25 miles per hour is assumed, consistent with the State of California Vehicle Code.

Main Street is an east-west oriented roadway located south of the project site. In the project vicinity, Main Street is designated as a Collector Street in the City of South Gate Mobility Element. One through travel lane is provided in each direction on Main Street within the project vicinity. Main Street is posted for a 35 miles per hour speed limit in the project vicinity.

N. Somerset Ranch Road is a westbound one-way street located south of the project site. In the project vicinity, N. Somerset Ranch Road is designated as a Collector Street in the City of South Gate Mobility Element, and as a Collector Street in the City of Paramount General Plan. Two through travel lanes are provided on N. Somerset Ranch Road within the project vicinity. Separate exclusive left-turn lanes are provided along N. Somerset Ranch Road at major intersections in the project vicinity. Separate exclusive right-turn lanes are provided on N. Somerset Ranch Road at the Paramount Boulevard intersection. N. Somerset Ranch Road is posted for a 40 miles per hour speed limit in the project vicinity.

S. Somerset Ranch Road is an eastbound one-way street located south of the project site. In the project vicinity, S. Somerset Ranch Road is designated as a Collector Street in the City of South Gate Mobility Element, and as a Collector Street in the City of Paramount General Plan. Two through travel lanes are provided on S. Somerset Ranch Road within the project vicinity. Separate exclusive left-turn lanes are provided along S. Somerset Ranch Road at major intersections in the project vicinity. S. Somerset Ranch Road is posted for a 40 miles per hour speed limit in the project vicinity.

4.4 Public Transit Services

Public transit services within the project study area are currently provided by the Los Angeles County Metropolitan Transit Authority (Metro), DowneyLink Transit, City of South Gate Transit, and City of Lynwood Trolley/Breeze. A summary of the existing transit service, including the transit routes servicing the project vicinity, destinations, and peak hour headways is presented in ***Table 4–1***. As shown in *Table 4–1*, the following bus lines serve the project study area: Metro 117, Metro 120, Metro 258, Metro 265, Metro 266, Metro Rapid 762, DowneyLink Southwest, DowneyLink Southeast, G.A.T.E. Eastside, and Lynwood Trolley/Breeze Route B. Additionally, the Metro Green Line light rail line serves the project study area. The existing public transit routes in the project study area are shown in ***Figure 4–2***.

In addition to these existing routes, Metro is currently in the planning and environmental review phase for the West Santa Ana Branch Line, which would include a transit station at Gardendale Street, in proximity to the project site. Per Measure M, the project would break ground in 2022 with an opening date of 2041. Metro is advancing the project as a Public Private Partnership that may potentially accelerate the project opening earlier than 2041.

4.5 Bicycle and Pedestrian Facilities

Bicycle and pedestrian facilities are provided within the project study area, and offer additional options for travel to and from the project site. Gardendale Street, which borders the project site to the south, provides on-street bicycle lanes in each direction. The Rio Hondo, Los Angeles River, and San Gabriel River Multi-Use Trails provide walking and bicycling facilities for regional travel to and from the project site. Additionally, sidewalks are provided on all streets within the project study area.

Table 4-1
EXISTING PUBLIC TRANSIT ROUTES [1]

26-Apr-18

ROUTE	DESTINATIONS	ROADWAY(S) NEAR SITE	NO. OF BUSES/TRAINS DURING PEAK HOUR		
			DIR	AM	PM
Metro 117	Downey to LAX City Bus Center (via Century Boulevard & Imperial Highway)	Imperial Highway	EB WB	8 7	8 6
Metro 120	Whittwood Town Center to Aviation/LAX Station (via Imperial Highway)	Imperial Highway	EB WB	3 6	5 4
Metro 258	Altadena to Paramount (via Fremont Avenue, Eastern Avenue & Lake Avenue)	Garfield Avenue	NB SB	3 3	3 3
Metro 265	Pico Rivera to Lakewood Center Mall (via Paramount Boulevard)	Paramount Boulevard	NB SB	3 1	2 2
Metro 266	Sierra Madre Villa Station to Lakewood Center Mall (via Rosemead Boulevard & Lakewood Boulevard)	Lakewood Boulevard	NB SB	6 4	4 4
Metro Rapid 762	Pasadena to Artesia Blue Line Station (via Fair Oaks Boulevard & Atlantic Avenue)	Atlantic Avenue	NB SB	5 5	4 5
Metro Green Line	Norwalk to Redondo Beach	Garfield Avenue Paramount Avenue	EB WB	17 17	17 17

Table 4-1 (Continued)
EXISTING PUBLIC TRANSIT ROUTES [1]

ROUTE	DESTINATIONS	ROADWAY(S) NEAR SITE	NO. OF BUSES/TRAINS DURING PEAK HOUR		
			DIR	AM	PM
DowneyLink Southwest	Roundtrip from Downey Transit Depot (via Rives Avenue & Brookshire Avenue)	Brookshire Avenue Imperial Highway	CW CCW	2 0	3 0
DowneyLink Southeast	Roundtrip from Downey Transit Depot (via Imperial Highway & Brookshire Avenue)	Brookshire Avenue Imperial Highway	CW CCW	5 0	4 0
G.A.T.E. Eastside	Roundtrip from Southgate Auditorium (via Garfield Avenue & Firestone Boulevard)	Garfield Avenue Imperial Highway	CW CCW	0 4	0 4
Lynwood Route B	Roundtrip from Rosa Parks Transit Center (via Atlantic Avenue & Imperial Highway)	Atlantic Avenue Imperial Highway	CW CCW	4 0	3 0
			Total	**103**	**98**

[1] Sources: Los Angeles County Metropolitan Transportation Authority (Metro) website, 2017.
DowneyLink Transit website, 2017.
City of South Gate Transit website, 2017.
Lynwood Trolley/Breeze website, 2017.
CW=Clockwise
CCW=Counterclockwise



N

NOT TO SCALE

MAP SOURCE: METROPOLITAN TRANSPORTATION AUTHORITY

★ PROJECT SITE

— METRO BUS ROUTE (117, 120, 258, 265, 266)

— METRO RAPID ROUTE (762)

— METRO GREEN LINE

- - NON-METRO BUS ROUTE (DOWNEYLINK, G.A.T.E, LYNWOOD TROLLEY/BREEZE)

FIGURE 4-2
EXISTING PUBLIC TRANSIT ROUTES

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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5.0 TRAFFIC COUNTS

Manual traffic counts of vehicular turning movements were conducted at each of the 27 study intersections during the weekday morning and afternoon commuter period to determine the peak hour traffic volume. The manual traffic counts at the study intersections were conducted from 7:00 AM to 9:00 AM to determine the AM peak commuter hour and from 4:00 to 6:00 PM to determine the PM peak commuter hour. The traffic counts were conducted on Wednesday, October 11, 2017 at 26 of the 27 study intersections. Traffic counts were conducted on Wednesday, August 15, 2018 at the Erickson Avenue / Amigos Avenue intersection (Int. No. 27) Per LACDPW Traffic and Lighting Division direction, the intersection traffic counts were conducted during a mid-week weekday while local schools were in session.

The weekday AM and PM peak period manual counts of vehicle movements at the study intersections are summarized in ***Table 5–1***. The existing traffic volumes at the study intersections during the AM and PM peak hours are shown in ***Figures 5–1 and 5–2***, respectively. Summary data worksheets of the manual traffic counts at the study intersections are contained in ***Appendix A***.

Table 5-1
EXISTING TRAFFIC VOLUMES [1]

02-Oct-18

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME [2]	BEGAN	VOLUME [2]
1	Atlantic Avenue / Imperial Highway	10/11/2017	NB	7:15	1,119	4:15	1,003
			SB		1,036		975
			EB		792		932
			WB		1,047		1,026
2	Wright Road / Abbott Road-I-710 Southbound Off-Ramp	10/11/2017	NB	7:00	857	5:00	1,120
			SB		467		483
			EB		680		539
			WB		593		505
3	Wright Road / Imperial Highway	10/11/2017	NB	7:00	560	5:00	379
			SB		1,244		1,071
			EB		1,320		1,248
			WB		1,781		2,058
4	Ruchti Road-Garfield Place / Imperial Highway	10/11/2017	NB	7:15	636	4:30	456
			SB		44		98
			EB		2,342		2,132
			WB		1,737		1,622
5	Garfield Avenue / Imperial Highway	10/11/2017	NB	7:45	1,561	5:00	1,484
			SB		1,618		1,346
			EB		1,068		1,340
			WB		1,195		1,006
6	Garfield Avenue / Gardendale Street	10/11/2017	NB	7:30	956	5:00	706
			SB		1,059		1,243
			EB		143		76
			WB		891		467
7	Garfield Avenue / Monroe Avenue	10/11/2017	NB	7:30	1,007	5:00	775
			SB		743		788
			EB		42		52
			WB		10		10
8	Monroe Avenue / Gardendale Street	10/11/2017	NB	7:15	64	4:30	55
			SB		0		0
			EB		511		575
			WB		945		469
9	Garfield Avenue / Main Street	10/11/2017	NB	7:30	1,060	4:30	833
			SB		747		718
			EB		126		66
			WB		298		174
10	Garfield Avenue / N. Somerset Ranch Road	10/11/2017	NB	7:15	1,199	4:30	1,191
			SB		1,122		749
			EB		0		0
			WB		1,196		949
11	Garfield Avenue / S. Somerset Ranch Road	10/11/2017	NB	7:15	1,167	4:30	1,456
			SB		1,167		732
			EB		1,622		1,506
			WB		0		0

Table 5-1 (Continued)
EXISTING TRAFFIC VOLUMES [1]

02-Oct-18

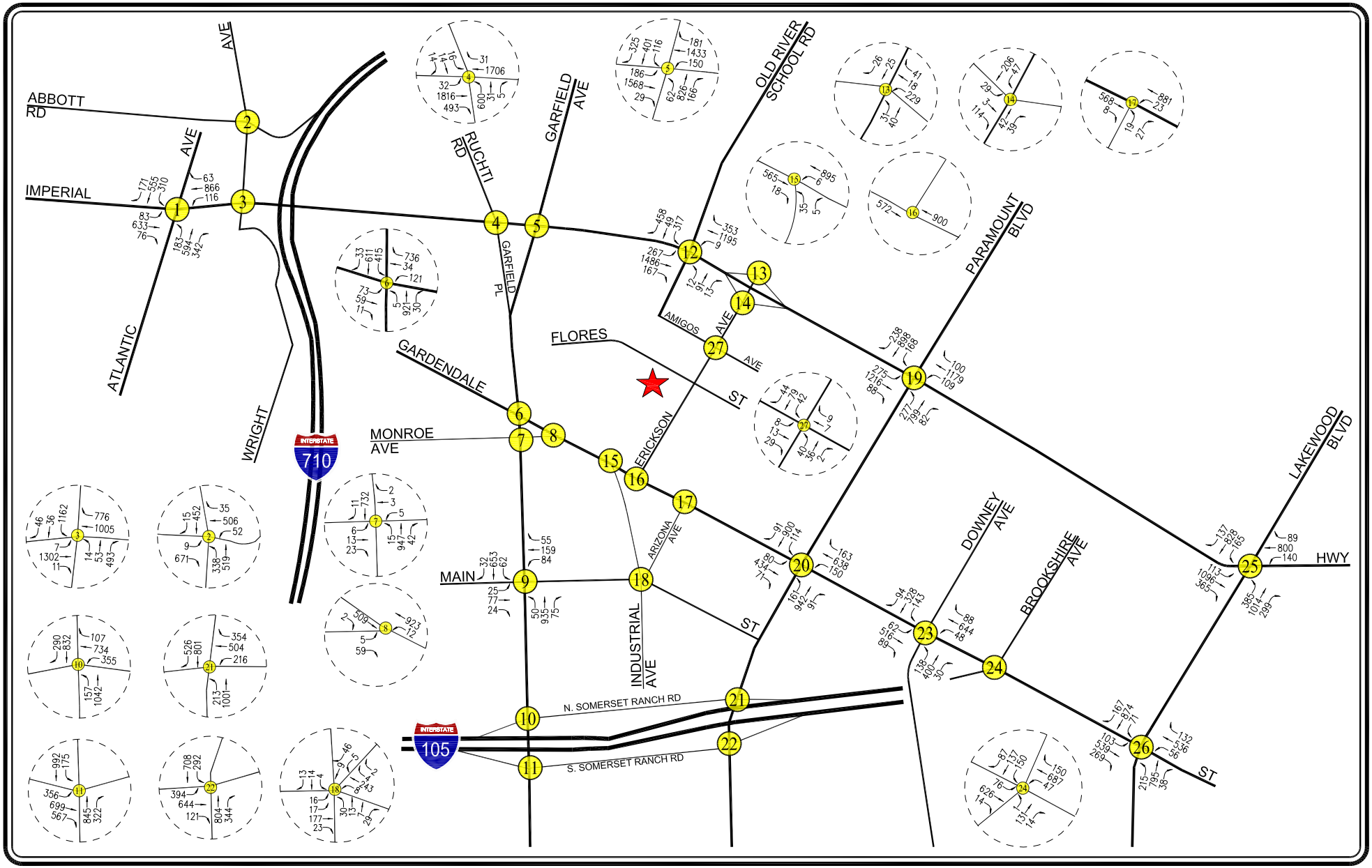
NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
12	Old River School Road / Imperial Highway	10/11/2017	NB	7:00	116	4:30	151
			SB		824		651
			EB		1,922		1,722
			WB		1,562		1,334
13	Erickson Avenue / W. Imperial Highway	10/11/2017	NB	7:30	71	4:00	97
			SB		51		72
			EB		0		0
			WB		288		85
14	Erickson Avenue / E. Imperial Highway	10/11/2017	NB	7:30	81	4:15	203
			SB		253		115
			EB		146		55
			WB		0		0
15	Industrial Avenue / Gardendale Street	10/11/2017	NB	7:15	40	4:30	34
			SB		0		0
			EB		583		637
			WB		901		471
16	Erickson Avenue / Gardendale Street	10/11/2017	NB	7:15	0	5:00	0
			SB		0		0
			EB		572		599
			WB		900		490
17	Arizona Avenue / Gardendale Street	10/11/2017	NB	7:15	46	5:00	36
			SB		0		0
			EB		576		602
			WB		906		507
18	Industrial Avenue / Arizona Avenue-Main Street	10/11/2017	NB	7:15	72	4:30	57
			SB		31		30
			EB		217		196
			WB		256		158
19	Paramount Boulevard / Imperial Highway	10/11/2017	NB	7:15	1,159	4:30	1,074
			SB		1,311		1,169
			EB		1,588		1,737
			WB		1,417		1,242
20	Paramount Boulevard / Gardendale Street	10/11/2017	NB	7:15	1,194	5:00	1,240
			SB		1,106		1,161
			EB		585		629
			WB		951		607
21	Paramount Boulevard / N. Somerset Ranch Road	10/11/2017	NB	7:15	1,214	5:00	1,222
			SB		1,327		1,148
			EB		0		0
			WB		1,074		894
22	Paramount Boulevard / S. Somerset Ranch Road	10/11/2017	NB	7:15	1,148	5:00	993
			SB		1,000		990
			EB		1,159		1,300
			WB		0		0

Table 5-1 (Continued)
EXISTING TRAFFIC VOLUMES [1]

02-Oct-18

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
23	Downey Avenue / Gardendale Street	10/11/2017	NB	7:15	568	5:00	700
			SB		565		516
			EB		667		704
			WB		780		606
24	N. Somerset Road-Brookshire Avenue / Gardendale Street	10/11/2017	NB	7:15	146	5:00	243
			SB		374		292
			EB		716		671
			WB		884		741
25	Lakewood Boulevard / Imperial Highway	10/11/2017	NB	7:15	1,731	4:45	1,472
			SB		1,156		1,105
			EB		1,588		1,560
			WB		1,042		1,303
26	Lakewood Boulevard / Gardendale Street	10/11/2017	NB	7:15	1,053	5:00	1,067
			SB		1,113		1,339
			EB		911		851
			WB		724		525
27	Erickson Avenue / Amigos Avenue	08/15/2018	NB	7:00	78	4:15	99
			SB		165		63
			EB		50		83
			WB		16		21

[1] National Data & Surveying Services



PROJECT SITE

STUDY INTERSECTION

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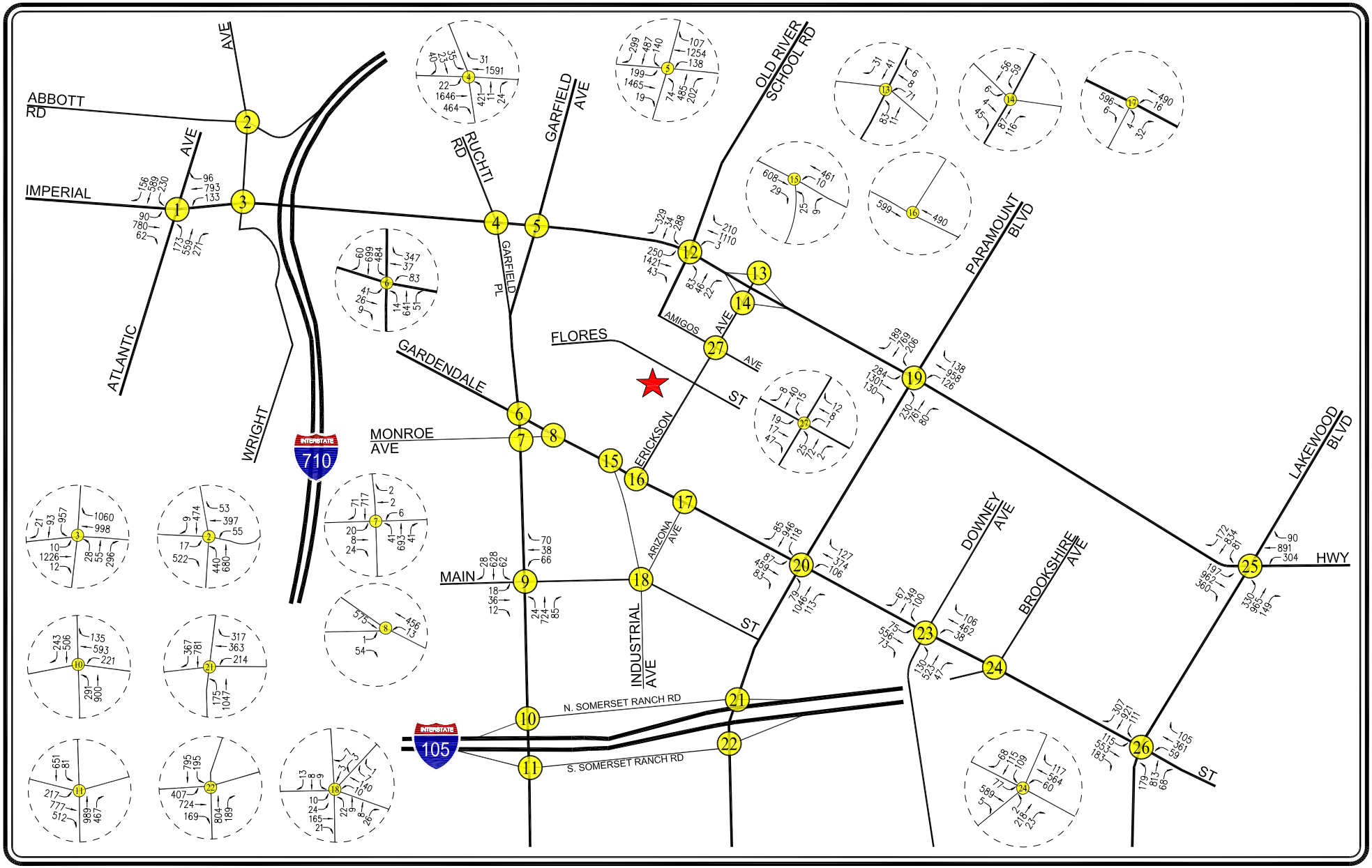
FIGURE 5-1
EXISTING TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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PROJECT SITE

XX STUDY INTERSECTION

N

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FIGURE 5-2
EXISTING TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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6.0 CUMULATIVE DEVELOPMENT PROJECTS

The forecast of future baseline traffic conditions was prepared in accordance to procedures outlined in Section 15130 of the CEQA Guidelines. Specifically, the CEQA Guidelines provide two options for developing the future traffic volume forecast:

> "(A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the [lead] agency, or
>
> (B) A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan. Such projections may be supplemented with additional information such as a regional modeling program. Any such document shall be referenced and made available to the public at a location specified by the lead agency."

The traffic analysis utilizes options "A" and "B" outlined in CEQA Guidelines for purposes of developing the future cumulative traffic volume forecast. This combined approach is considered conservative.

6.1 Related Projects

A forecast of cumulative traffic conditions with occupancy of the proposed project was prepared by incorporating the potential trips associated with other known development projects (related projects) in the project study area. With this information, the potential impact of the proposed project can be evaluated within the context of the cumulative impact of all ongoing development. The related projects research was based on information on file at the County of Los Angeles Department of Regional Planning, City of Downey Community Development Department, City of South Gate Community Development Department, and the City of Lynwood Building, Safety and Planning Division. The list of related projects that was determined by LLG to be applicable in the project site area is presented in ***Table 6–1***. The location of the related projects is shown in ***Figure 6–1***.

Traffic volumes expected to be generated by the related projects were calculated using rates provided in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*[3]. The related projects' respective traffic generation for the weekday AM and PM peak hours, as well as on a daily basis for a typical weekday, is summarized in *Table 6–1*. Related projects traffic volumes have been distributed and assigned to the adjacent street system based on considerations similar to the methodology used for the proposed project's traffic distribution and assignment as described in Section 7.2. The distribution of the related projects traffic volumes to the study

[3] Institute of Transportation Engineers *Trip Generation Manual*, 10th Edition, Washington, D.C., 2017.

Table 6-1
RELATED PROJECTS LIST AND TRIP GENERATION [1]

01-Oct-18

MAP NO.	PROJECT NAME/ PROJECT NUMBER	PROJECT STATUS	ADDRESS/ LOCATION	LAND USE DATA		PROJECT DATA SOURCE	DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]		
				LAND-USE	SIZE		VOLUMES	IN	OUT	TOTAL	IN	OUT	TOTAL
City of Downey													
DO1	Burlington Coat Factory	Under Construction	8955 Apollo Way	Commercial	34,000 GLSF	[3]	1,284	20	12	32	62	68	130
DO2	The Promenade	Proposed	9080 Apollo Way	Commercial	21,000 GLSF	[3]	793	12	8	20	38	42	80
DO3	Fontana Townhomes Project	Proposed	8435 Fontana Street	Townhomes	8 DU	[4]	59	1	3	4	3	1	4
DO4	Olson Downtown Housing	Under Construction	8150 Third Street	Townhomes	28 DU	[4]	205	3	10	13	10	6	16
DO5	8117 Second Street Apartment Project	Under Construction	8117 Second Street	Apartments	6 DU	[4]	44	1	2	3	2	1	3
DO6	8028 Third Street Medical Office Project	Approved	8028 Third Street	Medical Office	3,750 GSF	[5]	131	8	2	10	4	9	13
DO7	Kaiser Permanente Downey Medical Center	Approved	9343 Imperial Highway	Hospital	141,364 GSF	[6]	1,515	86	40	126	44	93	137
DO8	Downey Medical Office	Proposed	9041 Imperial Highway	Medical Office Commercial	12,000 GSF (13,405) GLSF	[5] [3]	418 (506)	26 (8)	7 (5)	33 (13)	12 (24)	30 (27)	42 (51)
DO9	Stewart and Gray Condos	Approved	8104 Stewart and Gray Road	Townhomes Single-Family Home	3 DU (1) DU	[4] [7]	22 (9)	0 0	1 (1)	1 (1)	1 (1)	1 0	2 (1)
DO10	Marriott Springhill Suites	Proposed	9066 Firestone Boulevard	Hotel	140 Rooms	[8]	1,170	39	27	66	43	41	84
DO11	Centerpointe	Under Construction	10720 Paramount Boulevard	Townhomes	117 DU	[4]	856	12	42	54	42	24	66
DO12	Avenue Theater	Proposed	11022 Downey Avenue	Restaurant Entertainment Venue Theater	5,487 GSF 11,009 GSF (9,240) GSF	[9] [10] [11]	616 nom. (722)	30 nom. (1)	25 nom. (1)	55 nom. (2)	33 83 (54)	21 42 (3)	54 125 (57)
DO13	Woodruff Senior Housing Development	Proposed	12820 Woodruff Avenue	Senior Housing	62 DU	[12]	265	5	10	15	12	7	19
DO14	Western Avenue Townhome Project	Proposed	10345 Western Avenue	Townhomes	8 DU	[4]	59	1	3	4	3	1	4
DO15	Habitat for Humanity	Under Construction	9303 Elm Vista Drive	Townhomes	6 DU	[4]	44	1	2	3	2	1	3
DO16	Downey Oasis	Under Construction	9553 Firestone Boulevard	Condominiums	24 DU	[4]	176	3	8	11	8	5	13

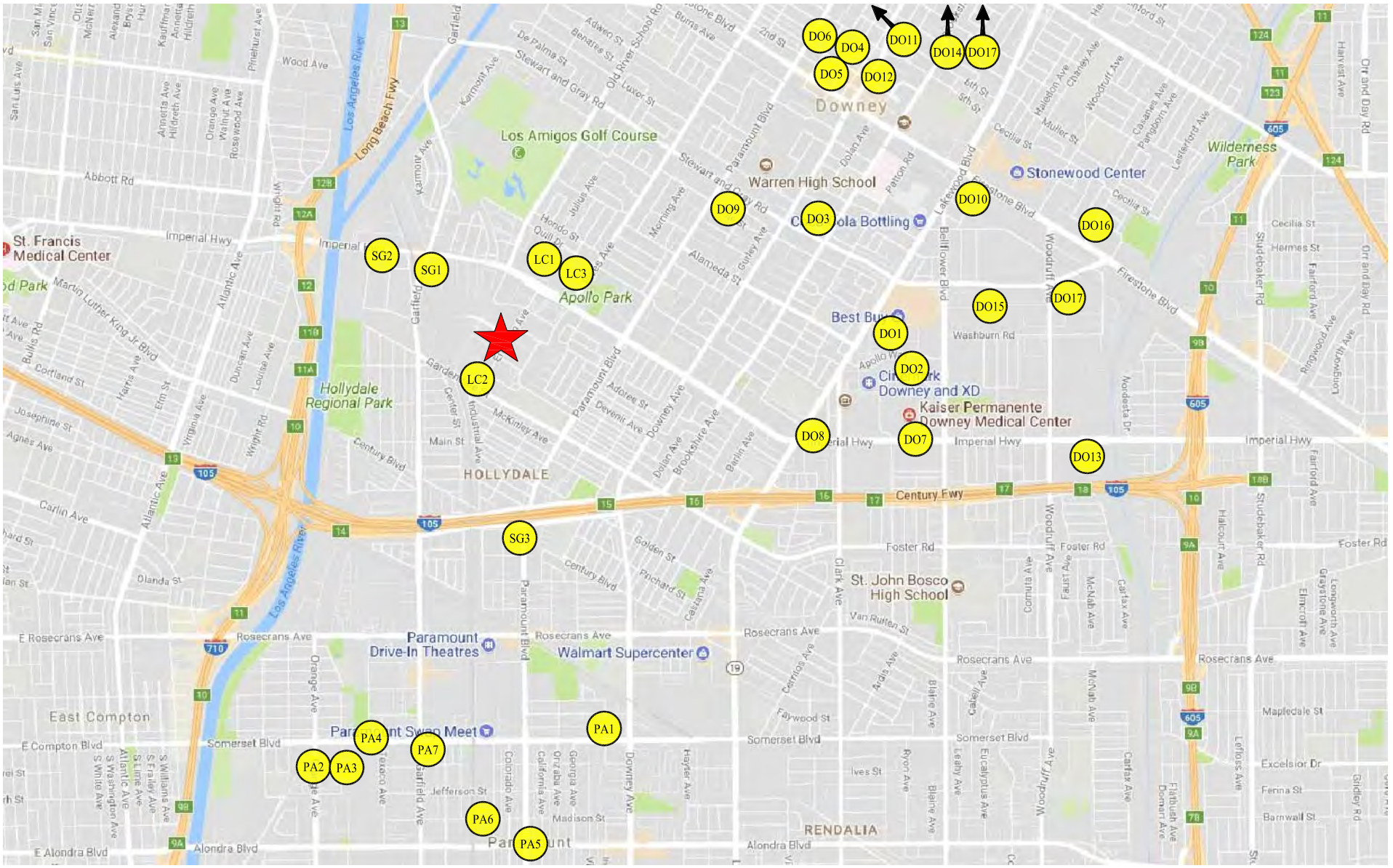
Table 6-1 (Continued)
RELATED PROJECTS LIST AND TRIP GENERATION [1]

MAP NO.	PROJECT NAME/ PROJECT NUMBER	PROJECT STATUS	ADDRESS/ LOCATION	LAND USE DATA		PROJECT DATA SOURCE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]		
				LAND-USE	SIZE			IN	OUT	TOTAL	IN	OUT	TOTAL
DO17	12120 Woodruff Avenue Industrial Project	Proposed	12120 Woodruff Avenue	Light Industrial	20,000 GSF	[13]	100	12	2	14	2	11	13
DO18	Starbucks	Proposed	7966 Florence Avenue	Coffee Shop with Drive-Thru Window	1,785 GSF	[14]	1,464	81	78	159	39	38	77
City of South Gate													
SG1	10920 Garfield AvenueApartments Apartments Project	Proposed	10920 Garfield Avenue	Apartments	244 DU	[4]	1,786	26	86	112	86	51	137
SG2	PATH Villas at South Gate	Proposed	5610 Imperial Highway	Apartments	60 DU	[4]	439	6	22	28	21	13	34
SG3	Gateway Plaza	Proposed	13700 Paramount Boulevard	Commercial Condominiums	10,000 GLSF 48 DU	[3] [4]	378 351	6 5	3 17	9 22	18 17	20 10	38 27
City of Paramount													
PA1	15015-15029 Indiana Avenue Residential Project	Under Construction	15015-15029 Indiana Avenue	Condominiums	8 DU	[4]	59	1	3	4	3	1	4
PA2	15158-15302 Indiana Avenue Residential Project	Proposed	15158-15302 Orange Avenue	Apartments	11 DU	[4]	81	1	4	5	4	2	6
PA3	15301-15309 Gundry Avenue Residential Project	Proposed	15301-15309 Gundry Avenue	Apartments	4 DU	[4]	29	0	2	2	1	1	2
PA4	7203-7215 Somerset Boulevard Residential Project	Proposed	7203-7215 Somerset Boulevard	Single-Family Homes	12 DU	[7]	113	2	7	9	8	4	12
PA5	8009 Alondra Boulevard Restaurant Project	Proposed	8009 Alondra Boulevard	Restaurant	5,799 GSF	[9]	651	32	26	58	35	22	57
PA6	7755 Madison Street Industrial Project	Proposed	7755 Madison Street	Light Industrial	7,200 GSF	[13]	36	4	1	5	1	4	5
PA7	7518 Somerset Boulevard Industrial Project	Proposed	7518 Somerset Boulevard	Light Industrial	7,049 GSF	[13]	34	4	1	5	1	3	4

Table 6-1 (Continued)
RELATED PROJECTS LIST AND TRIP GENERATION [1]

MAP NO.	PROJECT NAME/ PROJECT NUMBER	PROJECT STATUS	ADDRESS/ LOCATION	LAND USE DATA		PROJECT DATA SOURCE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]		
				LAND-USE	SIZE			IN	OUT	TOTAL	IN	OUT	TOTAL
County of Los Angeles													
LC1	Rancho Los Amigos National Rehabilitaion Center Consolidation Project	Under Construction	7601 E. Imperial Highway	Hospital Hospital	200 Beds (396) Beds	[6] [6]	4,464 (8,839)	265 (525)	103 (204)	368 (729)	106 (209)	272 (539)	378 (748)
LC2	Rancho Los Amigos South Campus Sports Center	Approved	Gardendale Street and Erickson Avenue	Sports Complex	3 Fields	[15]	214	2	1	3	32	17	49
LC3	Downey Recuperative Care Center	Proposed	7601 E. Imperial Highway	Rehabilitation Center Hospital	165 Beds (78,000) GSF	[16] [6]	429 (836)	20 (47)	11 (22)	31 (69)	16 (24)	27 (52)	43 (76)
TOTAL							7,373	134	336	470	480	268	748

[1] Source: County of Los Angeles Department of Public Works, City of Downey Related Projects List, City of South Gate Related Projects List, and City of Paramount Related Projects List.
[2] Trips are one-way traffic movements, entering or leaving.
[3] ITE Land Use Code 820 (Shopping Center) trip generation average rates.
[4] ITE Land Use Code 220 (Multifamily Housing [Low-Rise]) trip generation average rates.
[5] ITE Land Use Code 720 (Medical-Dental Office Building) trip generation average rates.
[6] ITE Land Use Code 610 (Hospital) trip generation average rates.
[7] ITE Land Use Code 210 (Single-Family Detached Housing) trip generation average rates.
[8] ITE Land Use Code 310 (Hotel) trip generation average rates.
[9] ITE Land Use Code 932 (High-Turnover [Sit-Down] Restaurant) trip generation equation rates.
[10] ITE Land Use Code 925 (Drinking Place) trip generation equation rates.
[11] ITE Land Use Code 444 (Movie Theater) trip generation average rates.
[12] ITE Land Use Code 251 (Senior Adult Housing - Detached) trip generation average rates.
[13] ITE Land Use Code 110 (General Light Industrial) trip generation average rates.
[14] ITE Land Use Code 937 (Coffee/Donut Shop with Drive-Through Window) trip generation equation rates.
[15] ITE Land Use Code 488 (Soccer Complex) trip generation average rates.
[16] ITE Land Use Code 254 (Assisted Living) trip generation average rates.
nom.=nominal



N

NOT TO SCALE

MAP SOURCE: GOOGLE MAPS

PROJECT SITE

(XX) RELATED PROJECT

FIGURE 6-1
LOCATION OF RELATED PROJECTS

LINSCOTT, LAW & GREENSPAN, engineers

RANCHO LOS AMIGOS SOUTH CAMPUS

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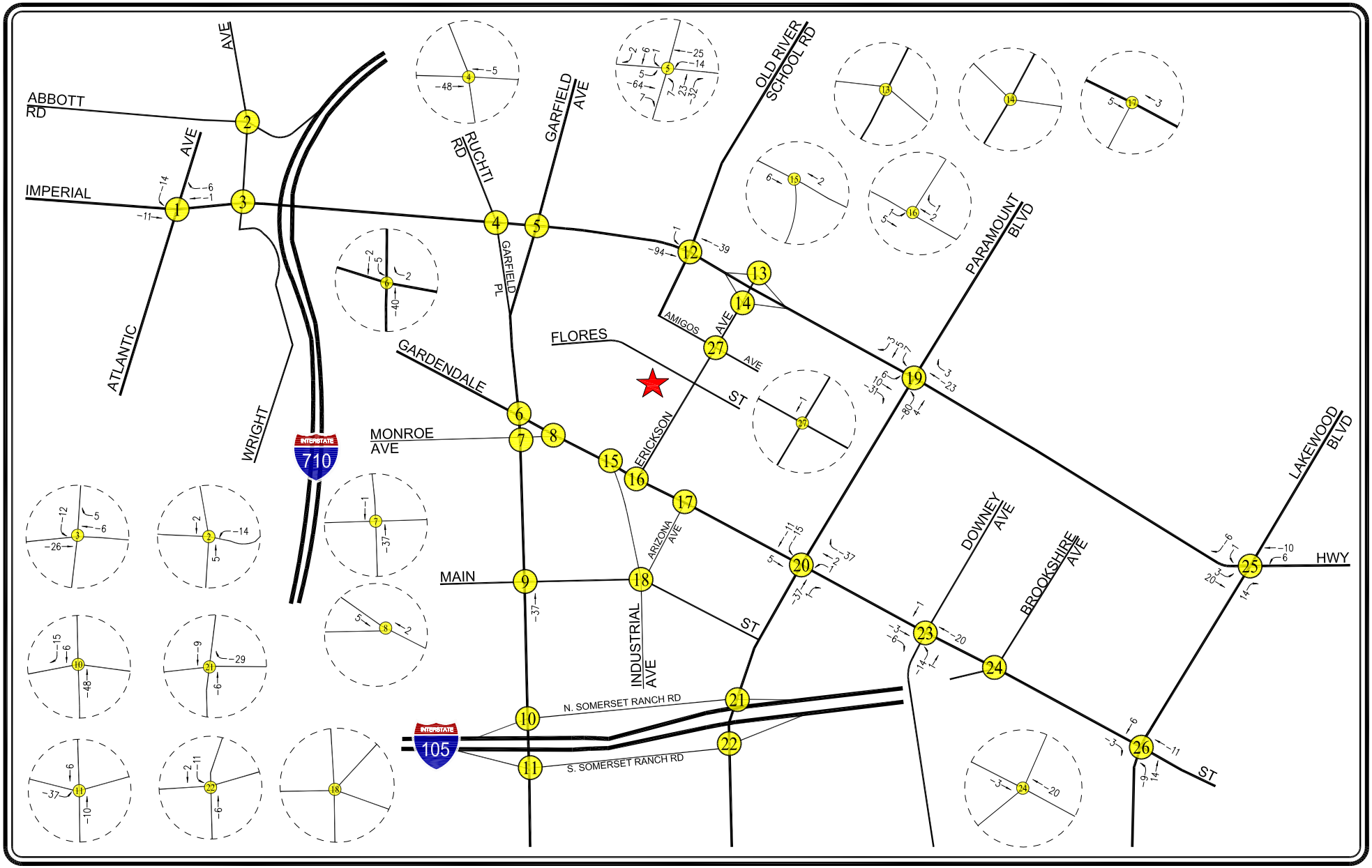
intersections during the weekday AM and PM peak hours are displayed in ***Figures 6–2*** and ***6–3***, respectively.

6.2 Ambient Traffic Growth Factor

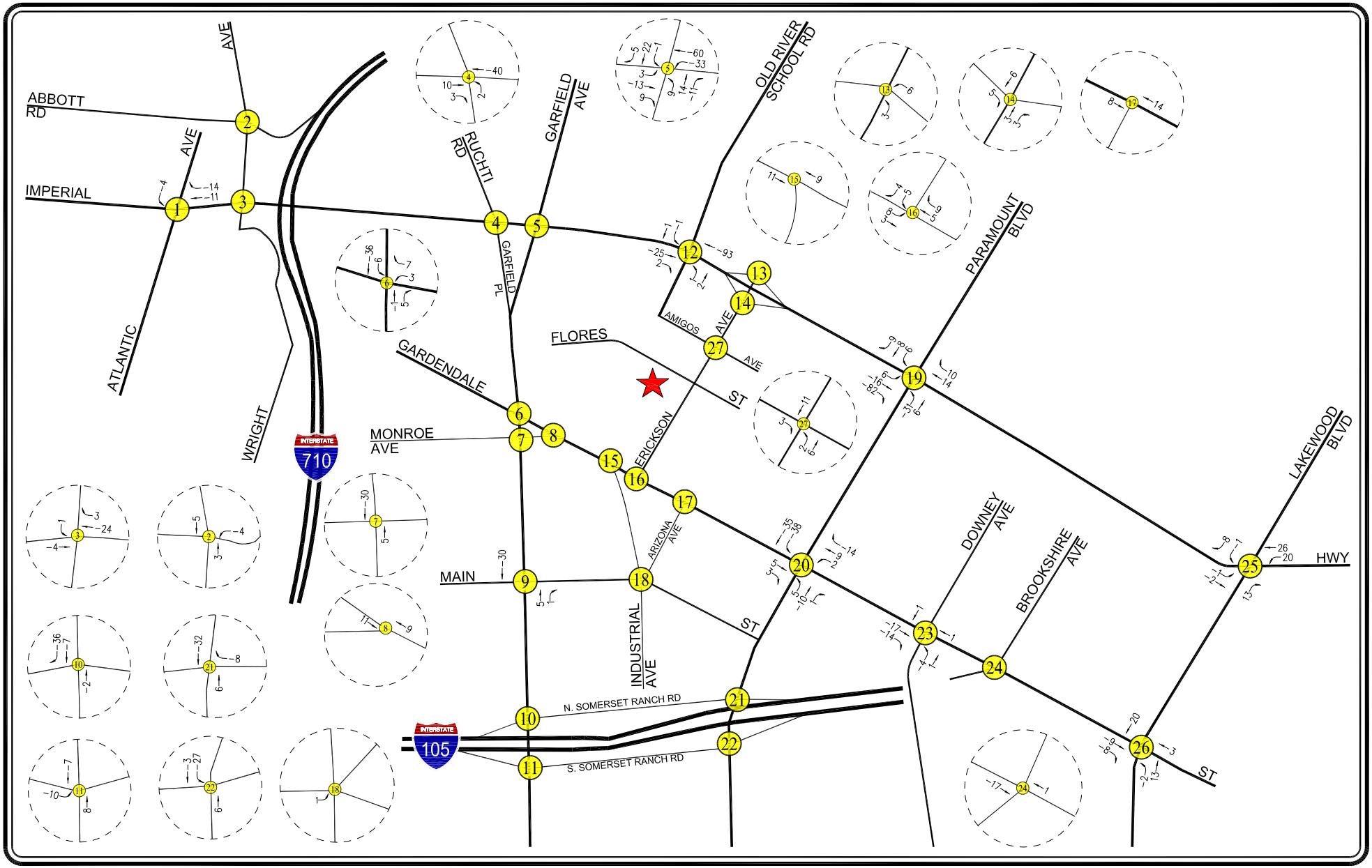
In order to reflect the effects of overall regional growth both in and outside of the transportation study area, the existing traffic volumes at the 27 intersections were increased at an annual rate of 1.0 percent (1.0%) per year to the year 2021 (i.e., the anticipated year of project build-out). The ambient growth factor was based on general traffic growth factors provided in the *2010 Congestion Management Program for Los Angeles County*[4] (the "CMP manual") and determined in consultation with LACDPW staff. It is noted that based on review of the general traffic growth factors provided in the CMP manual for the project study area (i.e., RSA 22, Downey) it is anticipated that the existing traffic volumes are expected to increase at an annual rate of approximately 0.61% per year between the years 2015 and 2025[5]. Thus, application of an annual growth factor of the 1.0% annual growth rate provides a conservative, worst-case forecast of future traffic volumes in the area as it substantially exceeds the annual traffic growth rate published in the CMP manual. Further, it is noted that the CMP manual's traffic growth rate is intended to anticipate future traffic generated by development projects in the project vicinity. Thus, the inclusion in this traffic analysis of both a forecast of traffic generated by known related projects plus the use of an ambient growth traffic factor based on CMP traffic model data results in a conservative estimate of future traffic volumes at the study intersections.

[4] The LA County Congestion Management Program is available online at: http://media.metro.net/docs/cmp_final_2010.pdf

[5] From a 2010 baseline, the CMP estimates total growth in RSA 22 of 1.052 % to 2015 and 1.116% to 2025. Therefore, ((1.116-1.052)/1.052)/10 years = 0.61% growth per year



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PROJECT SITE
XX STUDY INTERSECTION

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FIGURE 6-3
RELATED PROJECTS TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR
RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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7.0 TRAFFIC FORECASTING METHODOLOGY

In order to estimate the traffic characteristics of the proposed project, a multi-step process has been utilized. The first step is trip generation, which estimates the total arriving and departing traffic volumes on a peak hour and daily basis. The traffic generation potential is forecast by applying the appropriate vehicle trip generation equations or rates to the project.

The second step of the forecasting process is trip distribution, which identifies the origins and destinations of inbound and outbound project traffic volumes. These origins and destinations are typically based on demographics and existing/anticipated travel patterns in the study area. Residential zip code data related to current County employees anticipated to work at the project site was also utilized for purposes of forecasting origins and destinations of project-related trips.

The third step is traffic assignment, which involves the allocation of project traffic to the study area streets and intersections. Traffic assignment is typically based on minimization of travel time, which may or may not involve the shortest route, depending on prevailing operating conditions and travel speeds. Consequently, the trip distribution considers traffic congestion in the area. Traffic distribution patterns are indicated by general percentage orientation, while traffic assignment allocates specific volume forecasts to individual roadway links and intersection turning movements throughout the study area.

7.1 Project Traffic Generation

Traffic volumes expected to be generated by the proposed project during the weekday AM and PM peak hours, as well as on a daily basis, were estimated using rates published in the ITE *Trip Generation* manual. The following trip generation rates were used to forecast the traffic volumes expected to be generated by the project land use component:

- County Administrative Buildings: ITE Land Use Code 710 (General Office Building) trip generation equation rates were used to forecast the traffic volumes expected to be generated by the proposed Rancho Los Amigos South Campus project.

The daily and peak hour trip generation forecast for the proposed project was submitted for review and approval by LACDPW Traffic and Lighting Division. As presented in ***Table 7–1***, the proposed project (i.e., new County administrative buildings serving up to 3,000 employees) is expected to generate 1,038 vehicle trips (913 inbound trips and 125 outbound trips) during the AM peak hour. During the PM peak hour, the proposed project is expected to generate 884 vehicle trips (150 inbound trips and 734 outbound trips). Over a 24-hour period, the proposed project is forecast to generate an increase of 7,443 daily trip ends (approximately 3,722 inbound trips and 3,721 outbound trips) during a typical weekday.

As stated above, the trip generation forecast provided in *Table 7–1* utilizes the proposed number of County employees (i.e., 3,000 employees) as the independent variable for purposes of calculating the number of vehicle trips that may be generated by the project. It is noted that the ITE *Trip Generation Manual* also provides trip rates under Land Use Code 710 based on the

Table 7-1
PROJECT TRIP GENERATION [1]

14-Nov-18

LAND USE	SIZE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]		
			IN	OUT	TOTAL	IN	OUT	TOTAL
Proposed Project								
Rancho Los Amigos South Campus [3]	3,000 Employees	7,443	913	125	1,038	150	734	884
NET PROJECT TRIPS		**7,443**	**913**	**125**	**1,038**	**150**	**734**	**884**

[1] Source: ITE "Trip Generation Manual", 10th Edition, 2017.
[2] Trips are one-way traffic movements, entering or leaving.
[3] ITE Land Use Code 710 (General Office Building) trip generation equation rates rates.
- Daily Trip Rate: Ln(T) = 0.80*Ln(X) + 2.51 ; 50% inbound/50% outbound
- AM Peak Hour Trip Rate: Ln(T) = 0.79*Ln(X) + 0.62 ; 88% inbound/12% outbound
- PM Peak Hour Trip Rate: Ln(T) = 0.73*Ln(X) + 0.94 ; 17% inbound/83% outbound

amount of building floor area as the independent variable. If the ITE trip rates using the project floor area (650,000 square feet) as the independent variable were utilized, it would result in a forecast of 637 AM peak hour vehicle trips and 674 PM peak hour trips. As these floor area-based forecasts would result in fewer vehicle trips related to the project as compared to the forecasts based on the proposed number of employees (1,038 AM peak hour trips and 884 PM peak hour trips), LACDPW Traffic and Lighting Division staff directed that the forecasts using the employee-based trip rates be utilized so as to provide a conservative ("worst case") assessment of the potential traffic impacts due to the project.

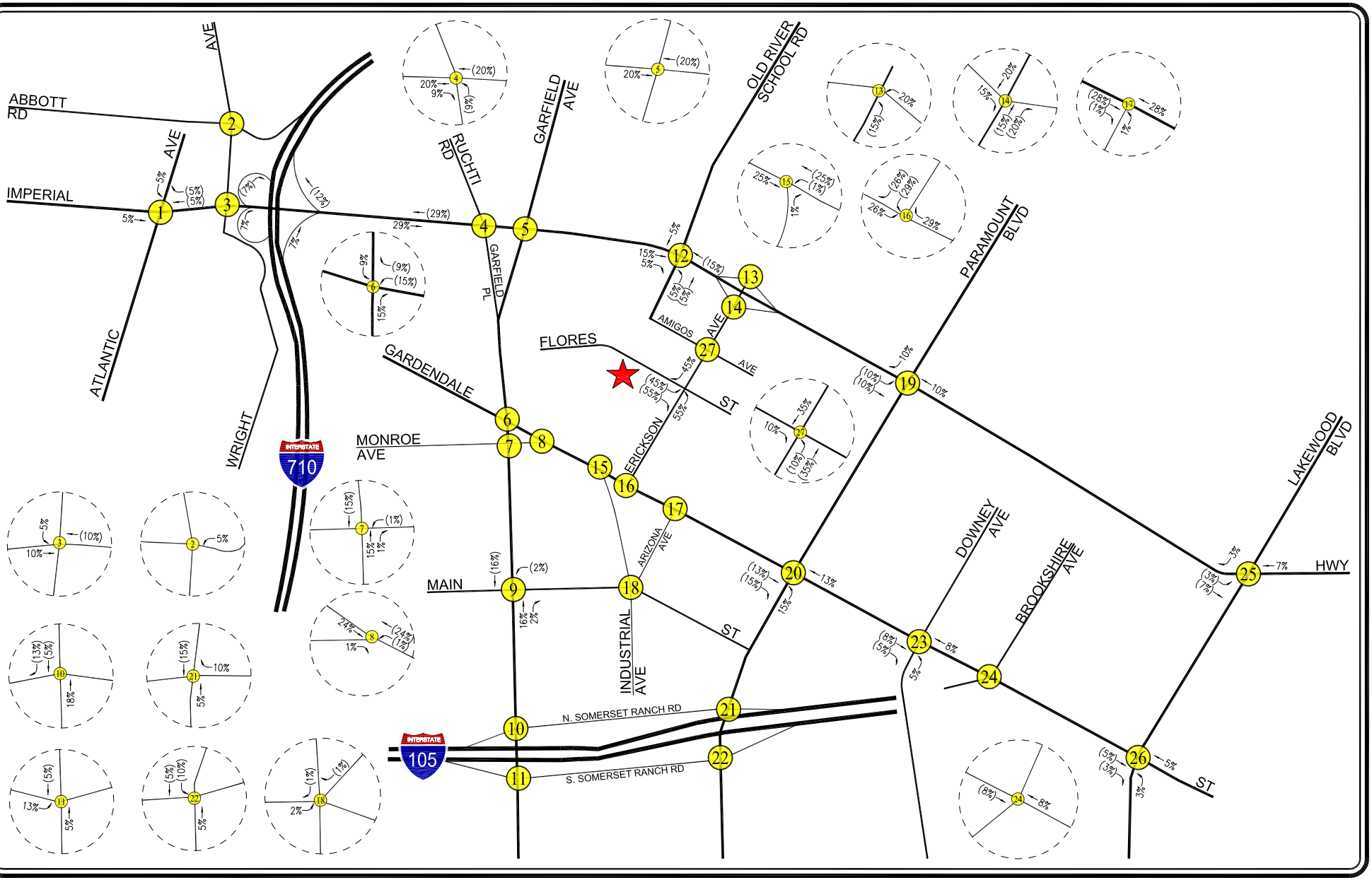
The *Trip Generation Manual* states that the driveway traffic count data used by ITE for purposes of establishing the trip generation rates was generally collected at suburban sites with little or no transit services and potential for trips made by other modes such as walking and bicycling. As previously described in Section 4.4, the site is well-served by public transit services. In addition, bicycle trips to and from the project may be facilitated by the current bike lanes provided on Gardendale Street adjacent to site. However, to provide a conservative, worst-case analysis of the potential vehicular traffic impacts related to the project, no reductions were made to the project trip generation forecast provided in *Table 7–1* related to potential trips that may be made by public transit, bicycling or other modes in lieu of the private automobile.

7.2 Project Traffic Distribution and Assignment

Project traffic volumes both entering and exiting the site have been distributed and assigned to the adjacent street system based on the following considerations:

- The site's proximity to major traffic corridors (i.e., Imperial Highway, Gardendale Street, Paramount Boulevard, I-105 Freeway, I-710 Freeway, etc.);
- Expected localized traffic flow patterns based on adjacent roadway channelization and presence of traffic signals;
- Existing intersection traffic volumes (i.e. existing congestion);
- Ingress/egress availability at the project site assuming the site access and circulation scheme described in Section 3.0;
- The residential zip code data related to current County employees anticipated to work at the project site;
- Nearby population and employment centers as well as adjacent residential neighborhoods; and
- Input from LACDPW Traffic and Lighting staff.

The directional traffic distribution patterns for the proposed project are presented in ***Figure 7–1***. The forecast net new weekday AM and PM peak hour project traffic volumes at the study intersections associated with the proposed project are presented in ***Figures 7–2*** and ***7–3***, respectively. The traffic volume assignments presented in *Figures 7–2* and *7–3* reflect the traffic distribution characteristics shown in *Figure 7–1* and the project traffic generation forecast presented in *Table 7–1*.



PROJECT SITE
XX STUDY INTERSECTION
= INBOUND PERCENTAGES
(##) = OUTBOUND PERCENTAGES

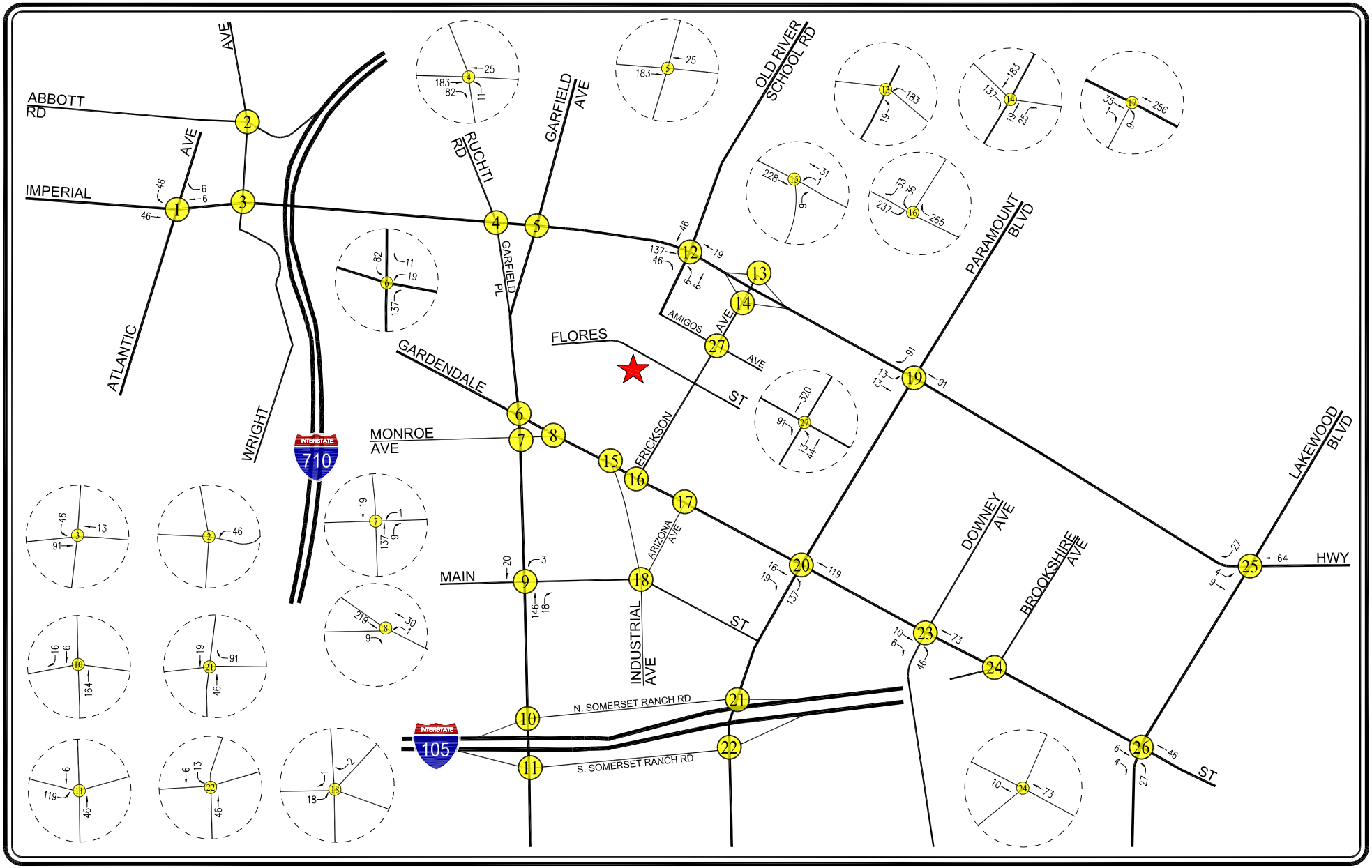
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FIGURE 7-1
PROJECT TRIP DISTRIBUTION

LINSCOTT, LAW & GREENSPAN, engineers

RANCHO LOS AMIGOS SOUTH CAMPUS

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PROJECT SITE

XX STUDY INTERSECTION

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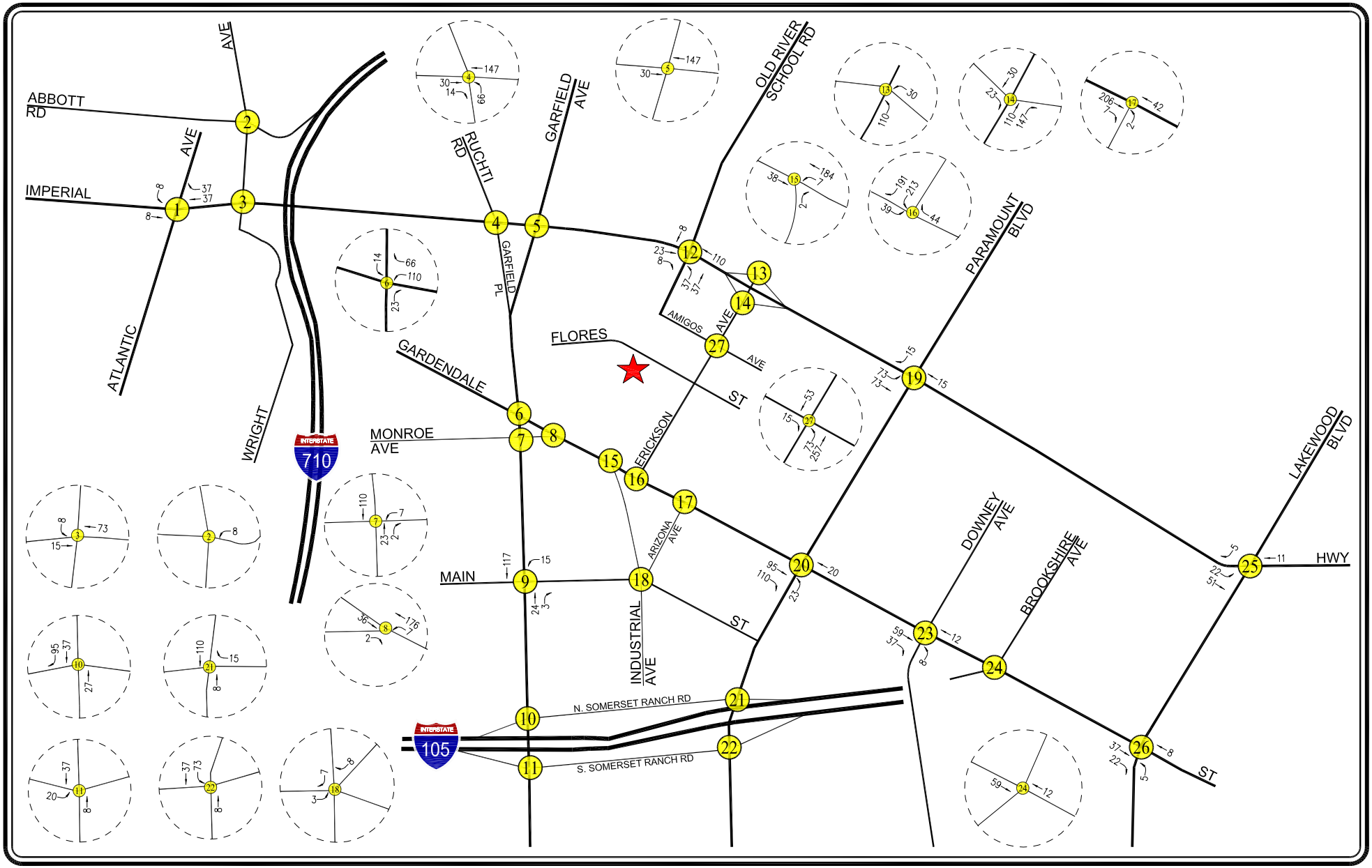
FIGURE 7-2
PROJECT TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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PROJECT SITE

XX STUDY INTERSECTION

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FIGURE 7-3
PROJECT TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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8.0 TRAFFIC IMPACT ANALYSIS METHODOLOGY

Operations at the signalized study intersections located in the Cities of Downey, South Gate, and Paramount, as well as under the jurisdiction of the County of Los Angeles were evaluated using the Intersection Capacity Utilization (ICU) method of analysis based on the direction from the respective jurisdictions. Specifically, the ICU method was used to determine Volume-to-Capacity (*v/c*) ratios. The ICU calculations uses a lane capacity of 1,600 vehicles per hour (vph) for left-turn, through, and right-turn lanes. The overall intersection *v/c* ratio is subsequently assigned a LOS value to describe intersection operations.

The stop-controlled study intersections were evaluated using the Highway Capacity Manual (HCM) method of analysis based on guidelines provided by the Cities of Downey and South Gate and to determine the delay (in seconds) and corresponding LOS.

Operations at the study intersections located in the City of Lynwood were evaluated using the Critical Movement Analysis (CMA) method that determines (*v/c*) ratios on a critical lane basis in the City of Lynwood

The LOS under the different methodologies vary from LOS A (free flow) to LOS F (congested condition). A description of the ICU method and corresponding LOS for the Cities of Downey, South Gate, Paramount, and the County of Los Angeles are provided in ***Appendix B***, ***C***, ***D***, ***and E***, respectively. A description of the HCM and CMA methods and corresponding LOS are provided in ***Appendix F***, and ***G***, respectively.

8.1 Impact Criteria and Thresholds

The relative impact of the added project traffic volumes that would be generated by the proposed project during the AM and PM peak hours was evaluated based on analysis of existing and future cumulative operating conditions at the study intersections, with the proposed project. The previously discussed capacity analysis procedures were utilized to evaluate the existing and future *v/c* relationships and service level characteristics at each study intersection.

The significance of the potential impacts of project generated operational traffic was identified using the transportation impact criteria provided by the Cities of Downey, South Gate, Paramount, and Lynwood, as well as the County of Los Angeles. The transportation impact thresholds of significance for Downey, South Gate, Paramount, Los Angeles County, and Lynwood are provided in ***Tables 8–1***, ***8–2***, ***8–3***, ***8–4***, and ***8–5***, respectively.

Table 8-1 CITY OF DOWNEY INTERSECTION IMPACT OPERATIONAL THRESHOLD CRITERIA[6]		
Final *v/c*	**Level of Service**	**Project Related Increase in *v/c***
> 1.00	F	equal to or greater than 0.02

Table 8-2 CITY OF SOUTH GATE INTERSECTION IMPACT OPERATIONAL THRESHOLD CRITERIA[7]		
Final *v/c*	**Level of Service**	**Project Related Increase in *v/c***
> 0.900	E or F	equal to or greater than 0.02

Table 8-3 CITY OF PARAMOUNT INTERSECTION IMPACT OPERATIONAL THRESHOLD CRITERIA[8]		
Baseline *v/c*	**Level of Service**	**Project Related Increase in *v/c***
> 0.701 - 0.800	C	equal to or greater than 0.040
> 0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E or F	equal to or greater than 0.010

Table 8-4 COUNTY OF LOS ANGELES INTERSECTION IMPACT OPERATIONAL THRESHOLD CRITERIA[9]		
Baseline *v/c*	**Level of Service**	**Project Related Increase in *v/c***
> 0.701 - 0.800	C	equal to or greater than 0.040
> 0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E or F	equal to or greater than 0.010

[6] Source for City of Downey operational threshold criteria: *2010 Congestion Management Program*, Los Angeles County Metropolitan Transportation Authority, 2010. Email correspondence transmitted to Edwin Norris, City of Downey Deputy Director of Public Works, dated February 1, 2018 to confirm threshold.
[7] Source for City of South Gate operational threshold criteria: *Guidelines for Development Traffic Impact Analysis*, City South Gate Department of Public Works, July 13, 2009.
[8] Source for City of Paramount operational threshold criteria: *City of Paramount General Plan*, August 2007.
[9] Source for County of Los Angeles operational threshold criteria: County of Los Angeles' *Traffic Impact Analysis Report Guidelines*, January 1997.

Table 8-5 CITY OF LYNWOOD INTERSECTION IMPACT OPERATIONAL THRESHOLD CRITERIA[10]		
Baseline *v/c*	**Level of Service**	**Project Related Increase in *v/c***
> 0.701 - 0.800	C	equal to or greater than 0.040
> 0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E or F	equal to or greater than 0.010

8.2 Traffic Impact Analysis Scenarios

8.2.1 *City of Downey Traffic Impact Analysis Scenarios*

Pursuant to direction from Staff at the City of Downey, LOS calculations have been prepared for the following scenarios for the study intersections located within the City of Downey:

(a) Existing (2017) conditions.

(b) Condition (a) with completion and occupancy of the project.

(c) Condition (b) with implementation of project mitigation measures where necessary.

(d) Condition (a) plus ambient traffic growth through year 2021 and with completion and occupancy of the related projects (i.e., future cumulative without project)

(e) Condition (d) with completion and occupancy of the project.

(f) Condition (e) with implementation of project mitigation measures where necessary.

8.2.2 *City of South Gate Traffic Impact Analysis Scenarios*

Pursuant to direction from Staff at the City of South Gate, LOS calculations have been prepared for the following scenarios for the study intersections located within the City of South Gate:

(a) Existing (2017) conditions.

(b) Condition (a) with completion and occupancy of the project.

(c) Condition (b) with implementation of project mitigation measures where necessary.

(d) Condition (a) ambient traffic growth through year 2021 and with completion and occupancy of the related projects (i.e., future cumulative without project)

(e) Condition (d) with completion and occupancy of the project.

[10] Source for City of Lynwood operational threshold criteria: Email correspondence with City of Lynwood Staff, November 21, 2017.

(f) Condition (e) with implementation of project mitigation measures where necessary.

8.2.3 *City of Paramount Traffic Impact Analysis Scenarios*

Pursuant to direction from Staff at the City of Paramount, LOS calculations have been prepared for the following scenarios for the study intersections located within the City of Paramount:

(a) Existing (2017) conditions.

(b) Existing (2017) conditions with completion and occupancy of the project.

(c) Condition (b) with implementation of project traffic mitigation measures, where necessary.

(d) Future (2021) conditions with completion and occupancy of the project and related projects.

(e) Condition (d) with implementation of regional traffic mitigation measures, where necessary.

8.2.4 *County of Los Angeles Traffic Impact Analysis Scenarios*

Pursuant to direction from LACDPW's traffic study, LOS calculations have been prepared for the following scenarios for the study intersections located within the County of Los Angeles:

(a) Existing (2017) conditions.

(b) Existing (2017) conditions with completion and occupancy of the project.

(c) Condition (b) with implementation of project traffic mitigation measures, where necessary.

(d) Future (2021) conditions with completion and occupancy of the project and related projects.

(e) Condition (d) with implementation of regional traffic mitigation measures, where necessary.

8.2.5 *City of Lynwood Traffic Impact Analysis Scenarios*

Pursuant to direction from Staff at the City of Lynwood, LOS calculations have been prepared for the following scenarios for the study intersections located within the City of Lynwood:

(a) Existing conditions.

(b) Condition (a) with completion and occupancy of the project.

(c) Condition (b) with implementation of project mitigation measures where necessary.

(d) Condition (a) plus ambient traffic growth through year 2021 and with completion and occupancy of the related projects (i.e., future cumulative without project)

(e) Condition (d) with completion and occupancy of the project.

(f) Condition (e) with implementation of project mitigation measures where necessary.

The traffic volumes for each new condition were added to the volumes in the prior condition to determine the change in capacity utilization at the study intersections.

9.0 CITY OF DOWNEY TRAFFIC ANALYSIS

The traffic impact analysis prepared for the 14 study intersections located within the City of Downey using the ICU methodology for signalized intersections and HCM methodology for unsignalized intersections, and application of the City of Downey significant traffic impact criteria is summarized in ***Table 9–1***. The ICU and HCM data worksheets for the 14 analyzed intersections are contained in *Appendix B* and *F*, respectively.

9.1 Existing Conditions

9.1.1 *Existing Conditions*

As indicated in column [1] of *Table 9–1*, 13 of the 14 study intersections located in the City of Downey are presently operating at LOS D or better during the weekday AM and PM peak hours under existing conditions. The following unsignalized intersection currently operates at LOS E or worse during the peak hour shown below under existing conditions:

- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour: *v/c* = 0.684, Delay = 37.4 seconds, LOS E

The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 5–1* and *5–2*, respectively.

9.1.2 *Existing With Project Conditions*

As shown in column [2] of *Table 9–1,* application of the City's threshold criteria to the "Existing With Project" scenario indicates that the proposed project is not expected to create significant impacts at 12 of the 14 study intersections located in the City of Downey. As indicated in *Table 9–1*, a significant transportation impact is expected at the following two unsignalized intersections during the peak hours shown below under existing with project conditions:

- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.025
- Int. No. 16: Erickson Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.170, PM Peak Hour *v/c* increased 0.134

Incremental, but not significant, impacts are noted at the other 12 study intersections due to the project. The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in ***Figures 9–1*** and ***9–2***, respectively.

9.2 Future Cumulative Conditions

9.2.1 *Future Cumulative Without Project Conditions*

The future cumulative without project conditions were forecast based on the addition of the traffic generated by cumulative growth rates and the completion and occupancy of the other related projects. The *v/c* ratios and delay value at the study intersections are incrementally increased with the addition of traffic generated by cumulative growth and the related projects

Table 9-1
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
CITY OF DOWNEY INTERSECTIONS

17-Jun-19

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING DELAY OR V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
6	Garfield Avenue /	AM	0.673	B	0.750	C	0.077	NO	0.684	B	0.762	C	0.078	NO	0.762	C	0.078	N/A
	Gardendale Street	PM	0.568	A	0.648	B	0.080	NO	0.592	A	0.672	B	0.080	NO	0.672	B	0.080	N/A
12	Old River School Road /	AM	0.883	D	0.891	D	0.008	NO	0.906	E	0.914	E	0.008	NO	0.914	E	0.008	N/A
	Imperial Highway	PM	0.789	C	0.835	D	0.046	NO	0.798	C	0.844	D	0.046	NO	0.844	D	0.046	N/A
13	Erickson Avenue /	AM	9.6	A	14.0	B	----	----	9.7	A	14.4	B	----	----	14.4	B	----	----
	W. Imperial Highway [c]	PM	8.3	A	9.5	A	----	----	8.4	A	9.6	B	----	----	9.6	B	----	----
		AM	0.269	----	0.389	----	0.120	NO	0.276	----	0.396	----	0.120	NO	0.396	----	0.120	N/A
		PM	0.193	----	0.246	----	0.053	NO	0.201	----	0.254	----	0.053	NO	0.254	----	0.053	N/A
14	Erickson Avenue /	AM	8.6	A	10.9	B	----	----	8.6	A	11.1	B	----	----	11.1	B	----	----
	E. Imperial Highway [c]	PM	8.2	A	10.1	B	----	----	8.3	A	10.4	B	----	----	10.4	B	----	----
		AM	0.238	----	0.380	----	0.142	NO	0.243	----	0.386	----	0.143	NO	0.386	----	0.143	N/A
		PM	0.231	----	0.326	----	0.095	NO	0.241	----	0.336	----	0.095	NO	0.336	----	0.095	N/A
15	Industrial Avenue /	AM	37.4	E	> 50.0	F	----	----	42.3	E	> 50.0	F	----	----	> 50.0	F	----	----
	Gardendale Street [b]	PM	20.4	C	26.3	D	----	----	22.1	C	28.9	D	----	----	28.9	D	----	----
		AM	0.684	----	0.709	----	0.025	YES	0.709	----	0.734	----	0.025	YES	0.734	----	0.025	NO
		PM	0.526	----	0.555	----	0.029	NO	0.550	----	0.579	----	0.029	NO	0.579	----	0.029	N/A

Table 9-1 (Continued)
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
CITY OF DOWNEY INTERSECTIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING DELAY OR V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
16	Erickson Avenue /	AM	30.9	D	> 50.0	F	----	----	33.5	C	> 50.0	F	----	----	----	----	----	----
	Gardendale Street [b]	PM	20.2	C	> 50.0	F	----	----	17.4	C	> 50.0	F	----	----	----	----	----	----
		AM	0.663	----	0.833	----	0.170	YES	0.687	----	0.858	----	0.171	YES	0.858	D	0.171	YES
		PM	0.474	----	0.608	----	0.134	YES	0.494	----	0.627	----	0.133	YES	0.627	B	0.133	YES
17	Arizona Avenue /	AM	24.2	C	44.2	E	----	----	26.7	D	> 50.0	F	----	----	> 50.0	F	----	----
	Gardendale Street [b]	PM	13.9	B	18.2	C	----	----	14.5	B	19.1	C	----	----	19.1	C	----	----
		AM	0.679	----	0.845	----	0.166	NO	0.704	----	0.870	----	0.166	YES	0.870	----	0.166	NO
		PM	0.509	----	0.643	----	0.134	NO	0.530	----	0.664	----	0.134	NO	0.664	----	0.134	N/A
19	Paramount Boulevard /	AM	0.820	D	0.843	D	0.023	NO	0.839	D	0.862	D	0.023	NO	0.862	D	0.023	N/A
	Imperial Highway	PM	0.843	D	0.859	D	0.016	NO	0.858	D	0.874	D	0.016	NO	0.874	D	0.016	N/A
20	Paramount Boulevard /	AM	0.733	C	0.854	D	0.121	NO	0.758	C	0.877	D	0.119	NO	0.877	D	0.119	N/A
	Gardendale Street	PM	0.736	C	0.800	C	0.064	NO	0.739	C	0.803	D	0.064	NO	0.803	D	0.064	N/A
23	Downey Avenue /	AM	0.591	A	0.637	B	0.046	NO	0.605	B	0.642	B	0.037	NO	0.642	B	0.037	N/A
	Gardendale Street	PM	0.565	A	0.591	A	0.026	NO	0.584	A	0.600	A	0.016	NO	0.600	A	0.016	N/A
24	Brookshire Avenue-N. Somerset Ranch Road /	AM	0.594	A	0.617	B	0.023	NO	0.608	B	0.630	B	0.022	NO	0.630	B	0.022	N/A
	Gardendale Street	PM	0.581	A	0.585	A	0.004	NO	0.600	A	0.604	B	0.004	NO	0.604	B	0.004	N/A

Table 9-1 (Continued)
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
CITY OF DOWNEY INTERSECTIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING DELAY OR V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
25	Lakewood Boulevard /	AM	0.741	C	0.745	C	0.004	NO	0.778	C	0.780	C	0.002	NO	0.780	C	0.002	N/A
	Imperial Highway	PM	0.803	D	0.815	D	0.012	NO	0.845	D	0.857	D	0.012	NO	0.857	D	0.012	N/A
26	Lakewood Boulevard /	AM	0.795	C	0.815	D	0.020	NO	0.818	D	0.838	D	0.020	NO	0.838	D	0.020	N/A
	Gardendale Street	PM	0.767	C	0.788	C	0.021	NO	0.793	C	0.814	D	0.021	NO	0.814	D	0.021	N/A
27	Erickson Avenue /	AM	8.0	A	9.9	A	----	----	8.0	A	10.1	B	----	----	10.1	B	----	----
	Amigos Avenue [c]	PM	7.8	A	9.2	A	----	----	7.9	A	9.3	B	----	----	9.3	B	----	----
		AM	0.177	----	0.313	----	0.136	NO	0.179	----	0.316	----	0.137	NO	0.316	----	0.137	N/A
		PM	0.153	----	0.238	----	0.085	NO	0.158	----	0.243	----	0.085	NO	0.243	----	0.085	N/A

[a] According to the City of Downey, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final V/C	LOS	Project Related Increase in V/C
> 1.00	F	equal to or greater than 0.020

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.
[c] All-Way Stop-Controlled Intersection.

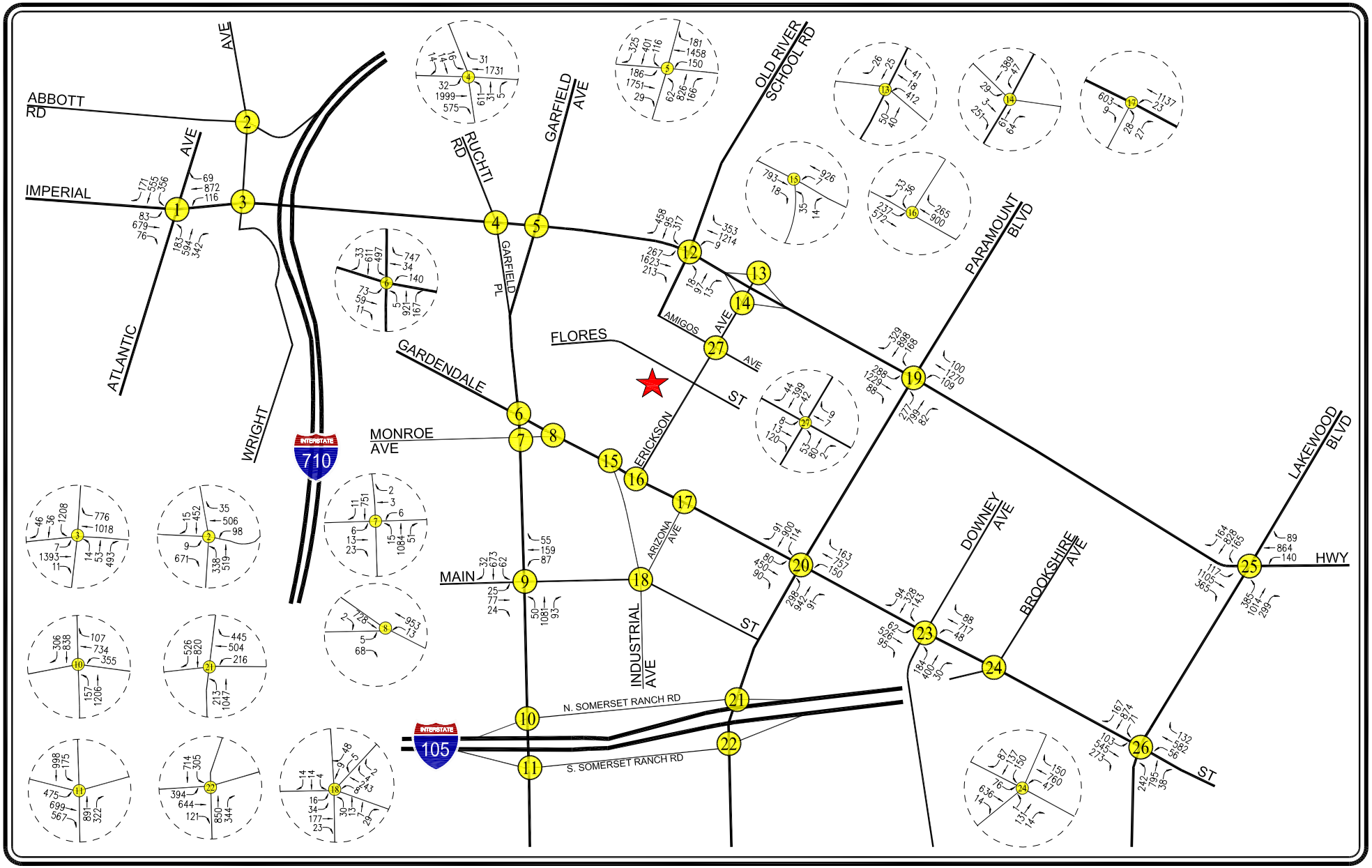
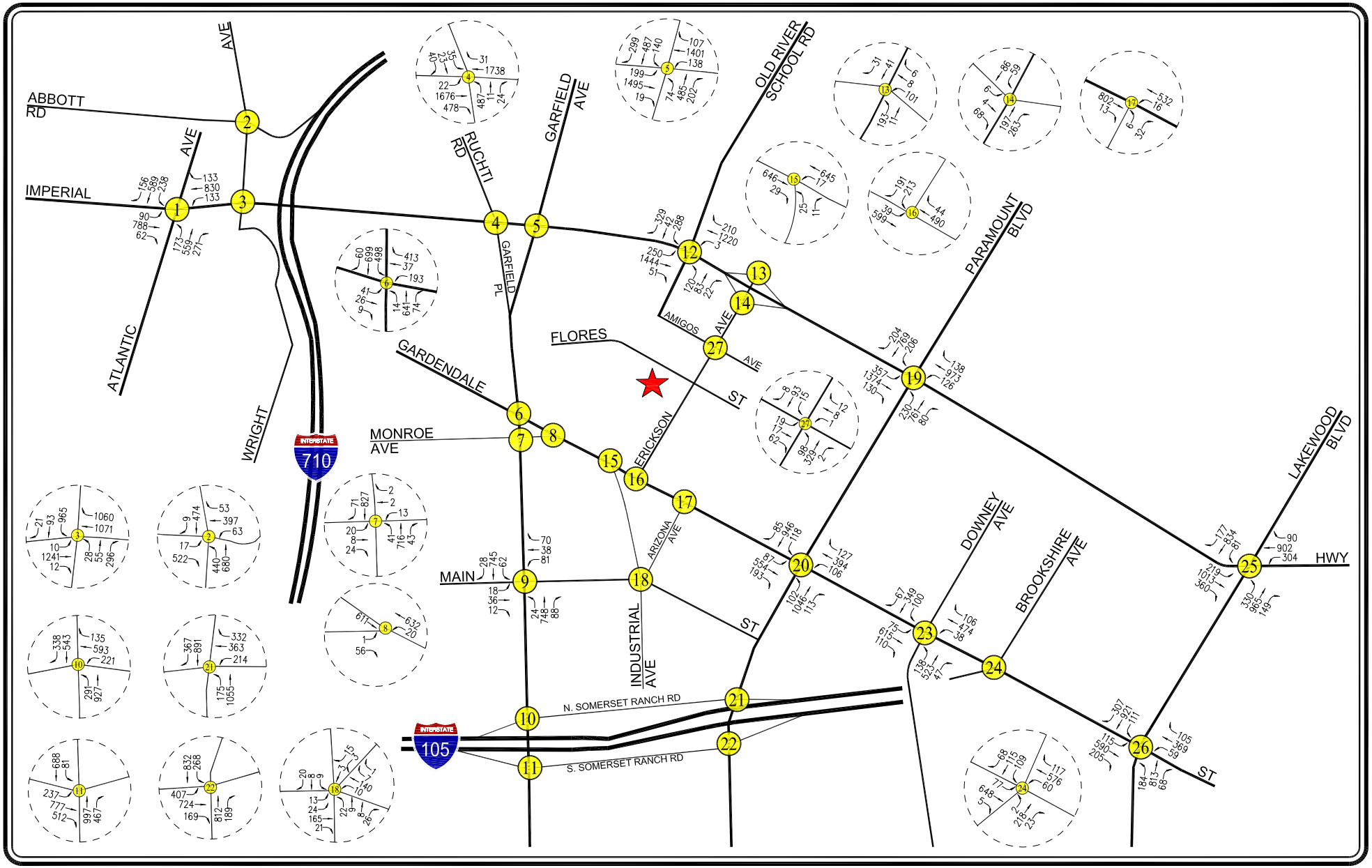


FIGURE 9-1
EXISTING WITH PROJECT TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR
RANCHO LOS AMIGOS SOUTH CAMPUS

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PROJECT SITE
STUDY INTERSECTION

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FIGURE 9-2
EXISTING WITH PROJECT TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR
RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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(including the project) listed in *Table 6–1*. As indicated in *Table 9–1*, incremental changes in *v/c* ratios are noted at the all of the study intersections due to the cumulative developments in the project vicinity.

As presented in column [3] of *Table 9–1*, 12 of the 14 study intersections are expected to operate at LOS D or better during the weekday AM and PM peak hours with the addition of growth in ambient traffic and related project traffic under the future cumulative without project conditions. The following two intersections, one signalized and one unsignalized, are expected to operate at LOS E or worse during the peak hour shown below under future cumulative without project conditions:

- Int. No. 12: Old River School Road / Imperial Highway — AM Peak Hour: *v/c* = 0.906, LOS E
- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour: *v/c* = 0.709
Delay = 42.3 seconds, LOS E

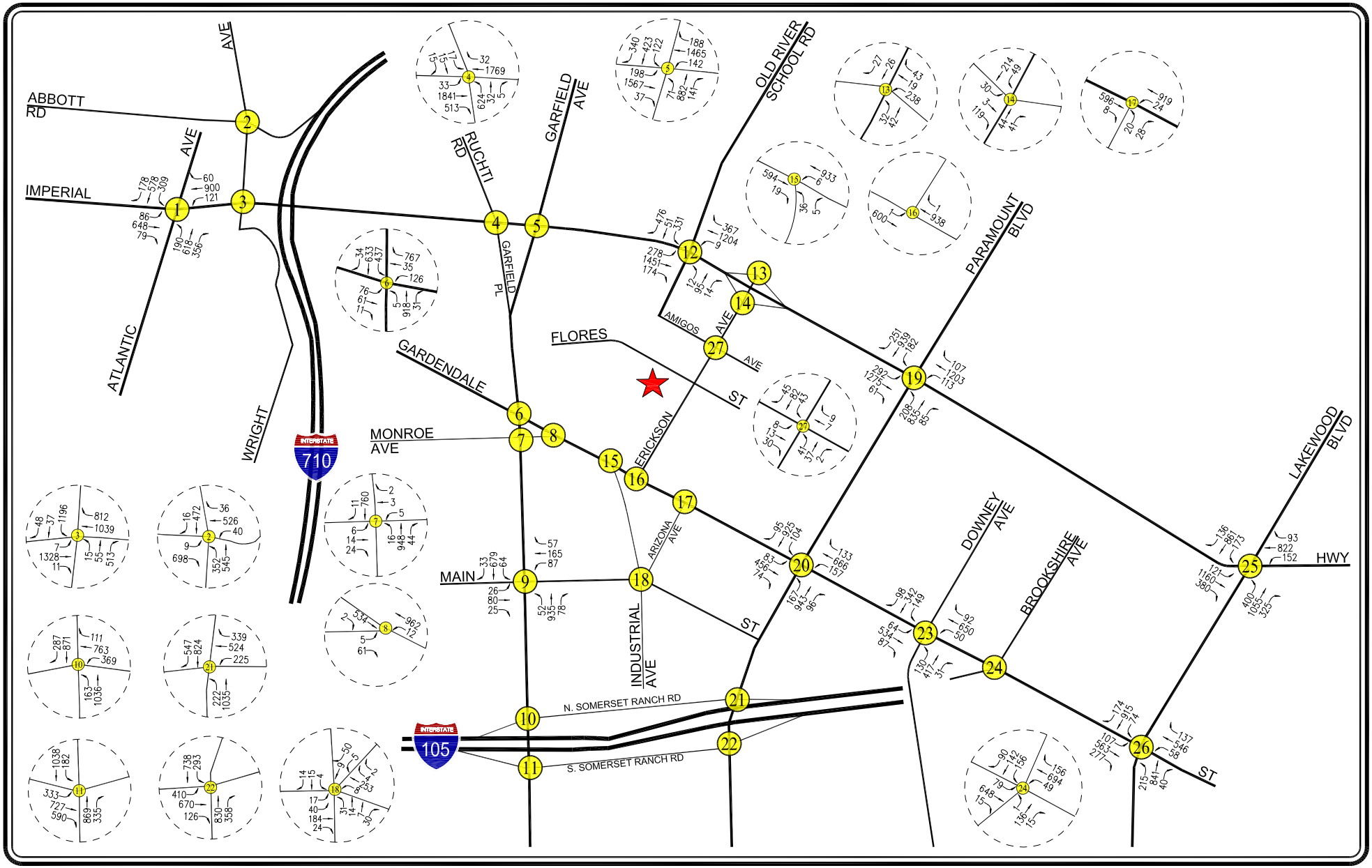
The future cumulative without project traffic volumes at the study intersections during the AM and PM peak hours are illustrated in ***Figures 9–3*** and ***9–4***, respectively.

9.2.2 *Future Cumulative With Project Conditions*

The future cumulative with project conditions were forecast based on the addition of traffic generated by the project plus annual ambient growth rates, plus completion and occupancy of other related projects. As shown in column [4] of *Table 9–1,* application of the City's threshold criteria to the "Future With Project" scenario as compared to the "Future Cumulative Without Project" scenario indicates that the proposed project is not expected to create a significant impact at 11 of the 14 study intersections located in the City of Downey. As indicated in *Table 9–1*, a significant transportation impact is expected at the following three unsignalized intersections during the peak hours shown below under future cumulative with project conditions:

- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.025
- Int. No. 16: Erickson Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.171
PM Peak Hour *v/c* increased 0.133
- Int. No. 17: Arizona Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.166

Incremental, but not significant, impacts are noted at the other 11 study intersections due to the project. The future cumulative with project (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in ***Figures 9–5* and *9–6***, respectively.



PROJECT SITE

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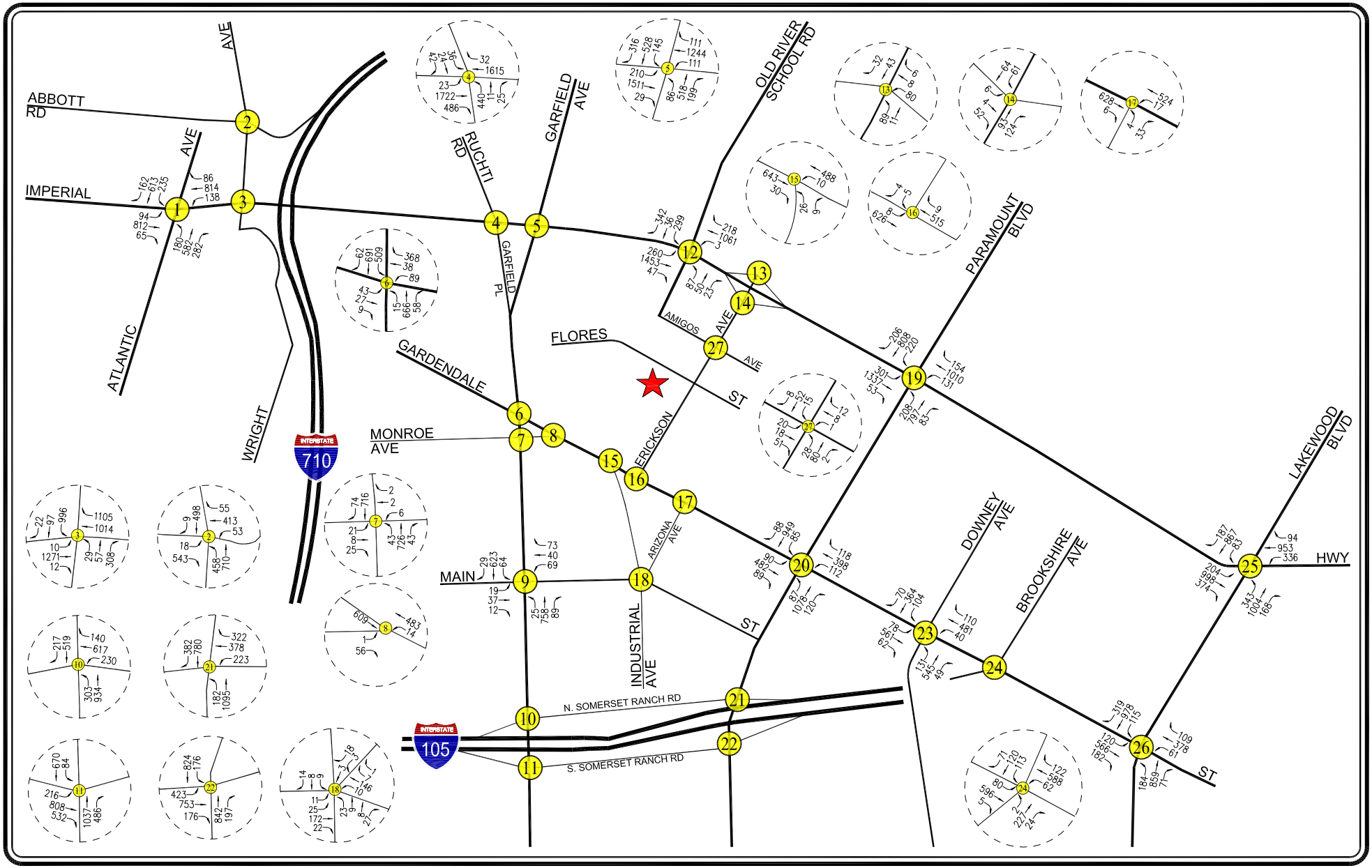
FIGURE 9-3
FUTURE CUMULATIVE WITHOUT PROJECT TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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PROJECT SITE

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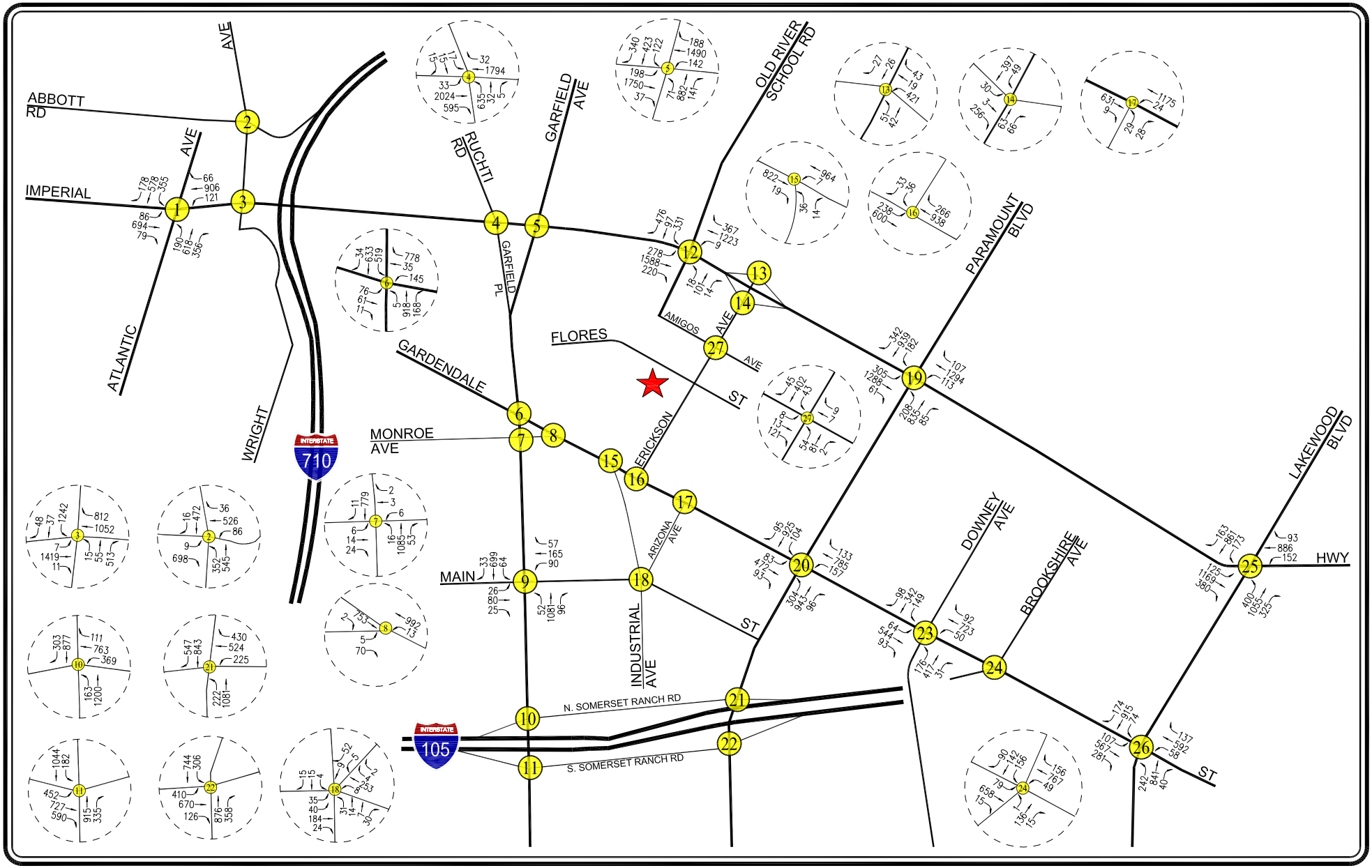
FIGURE 9-4
FUTURE CUMULATIVE WITHOUT PROJECT TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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PROJECT SITE

STUDY INTERSECTION

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FIGURE 9-5

FUTURE CUMULATIVE WITH PROJECT TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR

RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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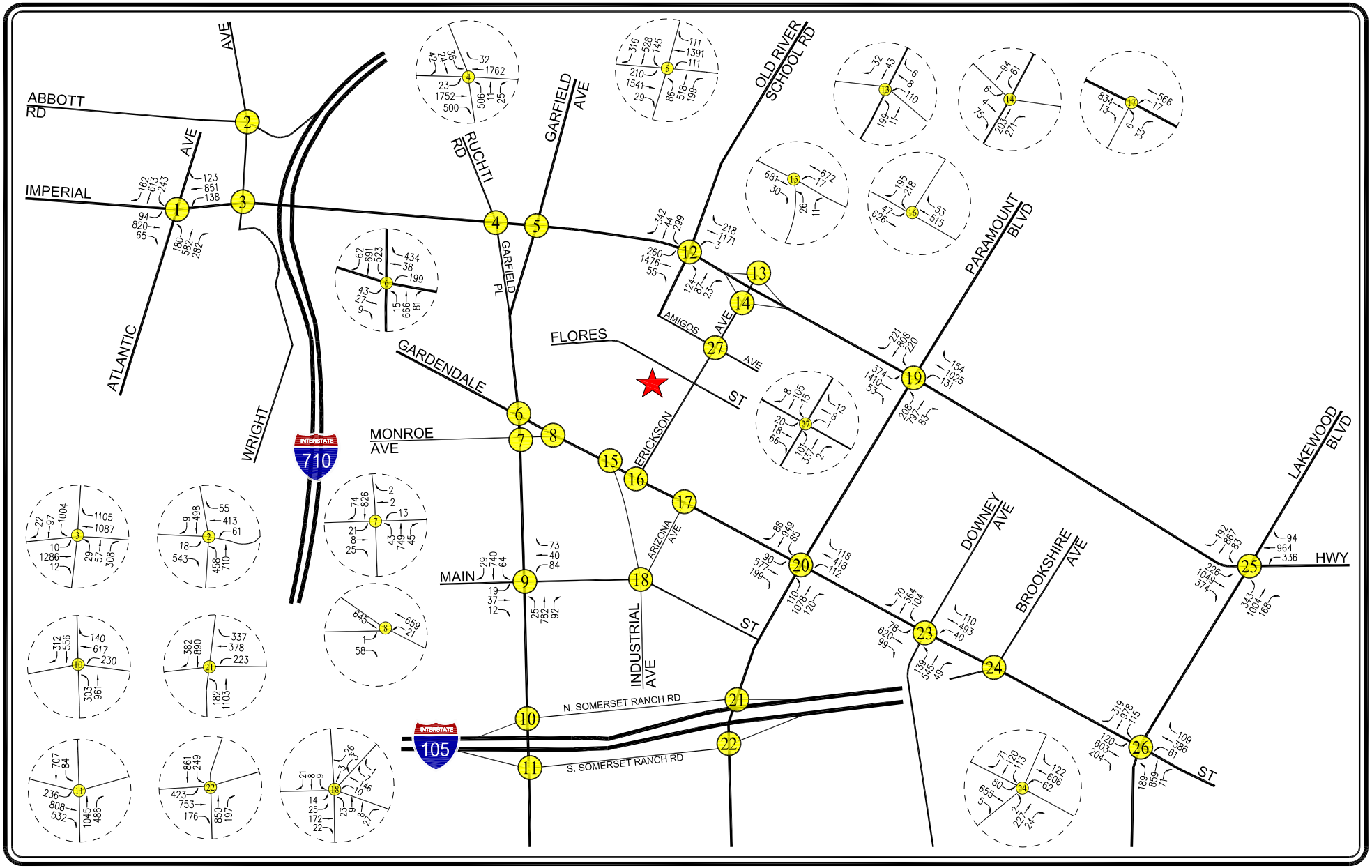


FIGURE 9-6
FUTURE CUMULATIVE WITH PROJECT TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR
RANCHO LOS AMIGOS SOUTH CAMPUS

LINSCOTT, LAW & GREENSPAN, engineers

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10.0 CITY OF SOUTH GATE TRAFFIC ANALYSIS

The traffic impact analysis prepared for the 16 study intersections located within the City of South Gate using the ICU methodology for signalized intersections and HCM methodology for unsignalized intersections, and application of the City of South Gate significant traffic impact criteria is summarized in ***Table 10–1***. The ICU and HCM data worksheets for the 16 analyzed intersections are contained in *Appendix C* and *F*, respectively.

10.1 Existing Conditions

10.1.1 *Existing Conditions*

As indicated in column [1] of *Table 10–1*, 13 of the 16 study intersections located in the City of South Gate are presently operating at LOS D or better during the weekday AM and PM peak hours under existing conditions. The following three intersections, one signalized and two unsignalized, are currently operating at LOS E or worse during the peak hour shown below under existing conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour: *v/c* = 1.048, LOS F; PM Peak Hour: *v/c* = 0.904, LOS E
- Int. No. 7: Garfield Avenue / Monroe Avenue — AM Peak Hour: *v/c* = 0.443; Delay = 44.6 seconds, LOS E
- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour: *v/c* = 0.684; Delay = 37.4 seconds, LOS E

The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 5–1* and *5–2*, respectively.

10.1.2 *Existing With Project Conditions*

As shown in column [2] of *Table 10–1*, application of the City's threshold criteria to the "Existing With Project" scenario indicates that the proposed project is not expected to create significant impacts at 11 of the 16 study intersections located in the City of South Gate. As indicated in *Table 10–1*, a significant transportation impact is expected at the following five intersections, one signalized and four unsignalized, during the peak hours shown below under existing with project conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour *v/c* increases 0.043
- Int. No. 7: Garfield Avenue / Monroe Avenue — AM Peak Hour *v/c* increases 0.046; PM Peak Hour *v/c* increased 0.039
- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.025

Table 10-1
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
CITY OF SOUTH GATE INTERSECTIONS

17-Jun-19

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING DELAY OR V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
2	Wright Road /	AM	0.682	B	0.696	B	0.014	NO	0.701	C	0.715	C	0.014	NO	0.715	C	0.014	N/A
	I-710 SB Off-Ramp - Abbott Road	PM	0.694	B	0.697	B	0.003	NO	0.718	C	0.721	C	0.003	NO	0.721	C	0.003	N/A
3	Wright Road /	AM	1.048	F	1.091	F	0.043	YES	1.075	F	1.117	F	0.042	YES	1.004	F	-0.071	YES
	Imperial Highway	PM	0.904	E	0.912	E	0.008	NO	0.936	E	0.943	E	0.007	NO	0.921	E	-0.015	N/A
4	Ruchti Road-Garfield Place /	AM	0.796	C	0.855	D	0.059	NO	0.814	D	0.873	D	0.059	NO	0.873	D	0.059	N/A
	Imperial Highway	PM	0.732	C	0.762	C	0.030	NO	0.761	C	0.791	C	0.030	NO	0.791	C	0.030	N/A
5	Garfield Avenue /	AM	0.899	D	0.911	E	0.012	NO	0.926	E	0.931	E	0.005	NO	0.931	E	0.005	N/A
	Imperial Highway	PM	0.766	C	0.797	C	0.031	NO	0.783	C	0.814	D	0.031	NO	0.814	D	0.031	N/A
6	Garfield Avenue /	AM	0.673	B	0.750	C	0.077	NO	0.684	B	0.762	C	0.078	NO	0.762	C	0.078	N/A
	Gardendale Street	PM	0.568	A	0.648	B	0.080	NO	0.592	A	0.672	B	0.080	NO	0.672	B	0.080	N/A
7	Garfield Avenue /	AM	44.6	E	>50.0	F	----	----	46.9	E	> 50.0	F	----	----	> 50.0	F	----	----
	Monroe Avenue [b]	PM	32.6	D	42.1	E	----	----	34.8	E	45.5	E	----	----	45.5	E	----	----
		AM	0.443	----	0.489	----	0.046	YES	0.445	----	0.492	----	0.047	YES	0.492	----	0.047	NO
		PM	0.395	----	0.434	----	0.039	YES	0.398	----	0.437	----	0.039	YES	0.437	----	0.039	NO

Table 10-1 (Continued)
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
CITY OF SOUTH GATE INTERSECTIONS

			[1]		[2]				[3]		[4]				[5]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING DELAY OR V/C	LOS	YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
8	Gardendale Street / Monroe Avenue [b]	AM	14.2	B	18.3	C	----	----	14.7	B	19.1	C	----	----	19.1	C	----	----
		PM	13.0	B	13.6	B	----	----	13.5	B	14.1	B	----	----	14.1	B	----	----
		AM	0.717	----	0.741	----	0.024	NO	0.743	----	0.767	----	0.024	NO	0.767	----	0.024	N/A
		PM	0.502	----	0.531	----	0.029	NO	0.525	----	0.553	----	0.028	NO	0.553	----	0.028	N/A
9	Garfield Avenue / Main Street	AM	0.656	B	0.709	C	0.053	NO	0.667	B	0.720	C	0.053	NO	0.720	C	0.053	N/A
		PM	0.512	A	0.529	A	0.017	NO	0.530	A	0.548	A	0.018	NO	0.548	A	0.018	N/A
12	Old River School Road / Imperial Highway	AM	0.883	D	0.891	D	0.008	NO	0.906	E	0.914	E	0.008	NO	0.914	E	0.008	N/A
		PM	0.789	C	0.835	D	0.046	NO	0.798	C	0.844	D	0.046	NO	0.844	D	0.046	N/A
15	Industrial Avenue / Gardendale Street [b]	AM	37.4	E	> 50.0	F	----	----	42.3	E	> 50.0	F	----	----	> 50.0	F	----	----
		PM	20.4	C	26.3	D	----	----	22.1	C	28.9	D	----	----	28.9	D	----	----
		AM	0.684	----	0.709	----	0.025	YES	0.709	----	0.734	----	0.025	YES	0.734	----	0.025	NO
		PM	0.526	----	0.555	----	0.029	NO	0.550	----	0.579	----	0.029	NO	0.579	----	0.029	N/A
16	Erickson Avenue / Gardendale Street [b]	AM	30.9	D	> 50.0	F	----	----	33.5	C	> 50.0	F	----	----	----	----	----	----
		PM	20.2	C	> 50.0	F	----	----	17.4	C	> 50.0	F	----	----	----	----	----	----
		AM	0.663	----	0.833	----	0.170	YES	0.687	----	0.858	----	0.171	YES	0.858	D	0.171	YES
		PM	0.474	----	0.608	----	0.134	YES	0.494	----	0.627	----	0.133	YES	0.627	B	0.133	YES

Table 10-1 (Continued)
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
CITY OF SOUTH GATE INTERSECTIONS

			[1]		[2]				[3]		[4]				[5]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING DELAY OR V/C	LOS	YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
17	Arizona Avenue / Gardendale Street [b]	AM	24.2	C	44.2	E	----	----	26.7	D	> 50.0	F	----	----	> 50.0	F	----	----
		PM	13.9	B	18.2	C	----	----	14.5	B	19.1	C	----	----	19.1	C	----	----
		AM	0.679	----	0.845	----	0.166	YES	0.704	----	0.870	----	0.166	YES	0.870	----	0.166	NO
		PM	0.509	----	0.643	----	0.134	NO	0.530	----	0.664	----	0.134	NO	0.664	----	0.134	N/A
18	Industrial Avenue-Arizona Avenue / Main Street [b]	AM	12.0	B	12.4	B	----	----	12.2	B	12.7	B	----	----	12.7	B	----	----
		PM	10.8	B	11.0	B	----	----	11.0	B	11.1	A	----	----	11.1	A	----	----
		AM	0.298	----	0.311	----	0.013	NO	0.306	----	0.319	----	0.013	NO	0.319	----	0.013	N/A
		PM	0.254	----	0.266	----	0.012	NO	0.261	----	0.272	----	0.011	NO	0.272	----	0.011	N/A
20	Paramount Boulevard / Gardendale Street	AM	0.733	C	0.854	D	0.121	NO	0.758	C	0.877	D	0.119	NO	0.877	D	0.119	N/A
		PM	0.736	C	0.800	C	0.064	NO	0.739	C	0.803	D	0.064	NO	0.803	D	0.064	N/A
21	Paramount Boulevard / N. Somerset Ranch Road	AM	0.810	D	0.810	D	0.000	NO	0.839	D	0.839	D	0.000	NO	0.839	D	0.000	N/A
		PM	0.654	B	0.657	B	0.003	NO	0.678	B	0.681	B	0.003	NO	0.681	B	0.003	N/A
23	Paramount Boulevard / S. Somerset Ranch Road	AM	0.689	B	0.707	C	0.018	NO	0.707	C	0.725	C	0.018	NO	0.725	C	0.018	N/A
		PM	0.691	B	0.717	C	0.026	NO	0.708	C	0.734	C	0.026	NO	0.734	C	0.026	N/A

[a] According to the City of South Gate, a transportation impact is considered significant if the final volume-to-capacity ratio (v/c) equals or exceeds the thresholds shown below:

Level of Service	Final V/C	Project-Related Increase in V/C
E,F	> 0.900	equal to or greater than 0.02

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

- Int. No. 16: Erickson Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.170; PM Peak Hour *v/c* increased 0.134
- Int. No. 17: Arizona Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.166

Incremental, but not significant, impacts are noted at the other 11 study intersections due to the project. The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9–1* and *9–2*, respectively.

10.2 Future Cumulative Conditions

10.2.1 *Future Cumulative Without Project Conditions*

The future cumulative without project conditions were forecast based on the addition of the traffic generated by ambient annual growth rates and the completion and occupancy of the other related projects. The *v/c* ratios and delay value at the study intersections are incrementally increased with the addition of traffic generated by cumulative growth and the other related projects (including the project) listed in *Table 6–1*. As indicated in *Table 10–1*, incremental changes in *v/c* ratios are noted at the all of the study intersections due to the cumulative developments in the project vicinity.

As presented in column [3] of *Table 10–1*, 11 of the 16 study intersections are expected to operate at LOS D or better during the weekday AM and PM peak hours with the addition of growth in ambient traffic and related project traffic under the future cumulative without project conditions. The following five intersections, three signalized and two unsignalized, are expected to operate at LOS E or worse during the peak hour shown below under future cumulative without project conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour: *v/c* = 1.075, LOS F; PM Peak Hour: *v/c* = 0.936, LOS E
- Int. No. 5: Garfield Avenue / Imperial Highway — AM Peak Hour: *v/c* = 0.926, LOS E
- Int. No. 7: Garfield Avenue / Monroe Avenue — AM Peak Hour: *v/c* = 0.445; Delay = 46.9 seconds, LOS E; PM Peak Hour: *v/c* = 0.398; Delay = 34.8 seconds, LOS E
- Int. No. 12: Old River School Road / Imperial Highway — AM Peak Hour: *v/c* = 0.906, LOS E
- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour: *v/c* = 0.709; Delay = 42.3 seconds, LOS E

The future cumulative without project traffic volumes at the study intersections during the AM and PM peak hours are illustrated in *Figures 9–3* and *9–4*, respectively.

10.2.2 *Future Cumulative With Project Conditions*

The future cumulative with project conditions were forecast based on the addition of traffic generated by the project plus ambient annual growth rates, plus completion and occupancy of other related projects. As shown in column [4] of *Table 10–1*, application of the City's threshold criteria to the "Future With Project" scenario as compared to the "Future Without Project" scenario indicates that the proposed project is not expected to create a significant impact at 11 of the 16 study intersections located in the City of South Gate. As indicated in *Table 10–1*, a significant transportation impact is expected at the following five intersections, one signalized and four unsignalized, during the peak hours shown below under future cumulative with project conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour *v/c* increases 0.042
- Int. No. 7: Garfield Avenue / Monroe Avenue — AM Peak Hour *v/c* increases 0.047; PM Peak Hour *v/c* increased 0.039
- Int. No. 15: Industrial Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.025
- Int. No. 16: Erickson Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.171; PM Peak Hour *v/c* increased 0.133
- Int. No. 17: Arizona Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.166

Incremental, but not significant, impacts are noted at the other 11 study intersections due to the project. The future cumulative with project (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9–5* and *9–6*, respectively.

11.0 CITY OF PARAMOUNT TRAFFIC ANALYSIS

The traffic impact analysis prepared for the four study intersections located within the City of Paramount using the ICU methodology and application of the City of Paramount significant traffic impact criteria is summarized in ***Table 11–1***. The ICU data worksheets for the four analyzed intersections are contained in *Appendix D*.

11.1 Existing Conditions

As indicated in column [1] of *Table 11–1*, the four study intersections (all signalized) located in the City of Paramount are presently operating at LOS D or better during the weekday AM and PM peak hours under existing conditions. The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 5–1* and *5–2*, respectively.

11.2 Existing With Project Conditions

As shown in column [2] of *Table 11–1,* application of the City's threshold criteria to the "Existing With Project" scenario indicates that the proposed project is not expected to create significant impacts at three of the four study intersections located in the City of Paramount. As indicated in *Table 11–1*, a significant transportation impact is expected at the following intersections during the peak hours shown below under existing with project conditions:

- Int. No. 20: Paramount Boulevard / Gardendale Street — AM Peak Hour *v/c* increases 0.121; PM Peak Hour *v/c* increased 0.064

Incremental, but not significant, impacts are noted at the other three study intersections due to the project. The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9–1* and *9–2*, respectively**.**

11.3 Future Cumulative With Project Conditions

The *v/c* ratios at all the City of Paramount study intersections are incrementally increased with the addition of traffic generated cumulative growth rates and the completion and operation of other related projects (including the project) listed in *Table 6–1*. As indicated in column [3] of *Table 11–1,* the proposed project contributes to a significant traffic impact at the following intersection during the peak hours shown below under future cumulative with project conditions:

- Int. No. 20: Paramount Boulevard / Gardendale Street — AM Peak Hour v/c increases 0.144; PM Peak Hour v/c increases 0.067

Incremental, but not significant changes in v/c ratios are noted at the remaining study intersection due to the cumulative developments in the project vicinity. The future cumulative with project (existing, proposed project, and related projects) traffic volumes at the study intersections during the AM and PM peak hours are illustrated in *Figures 9–5* and *9–6,* respectively.

Table 11-1
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
CITY OF PARAMOUNT INTERSECTIONS

04-Oct-18

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING V/C	[1] LOS	[2] YEAR 2017 W/ PROPOSED PROJECT V/C	[2] LOS	[2] CHANGE V/C [(2)-(1)]	[2] SIGNIF. IMPACT [a]	[3] YEAR 2021 W/ RELATED PROJECTS V/C	[3] LOS	[3] CHANGE V/C [(3)-(1)]	[3] SIGNIF. IMPACT [a]
10	Garfield Avenue / N. Somerset Ranch Road	AM	0.688	B	0.740	C	0.052	NO	0.748	C	0.060	NO
		PM	0.609	B	0.640	B	0.031	NO	0.637	B	0.028	NO
11	Garfield Avenue / S. Somerset Ranch Road	AM	0.773	C	0.800	C	0.027	NO	0.811	D	0.038	NO
		PM	0.754	C	0.757	C	0.003	NO	0.786	C	0.032	NO
20	Paramount Boulevard / Gardendale Street	AM	0.733	C	0.854	D	0.121	YES	0.877	D	0.144	YES
		PM	0.736	C	0.800	C	0.064	YES	0.803	D	0.067	YES
23	Downey Avenue / Gardendale Street	AM	0.591	A	0.637	B	0.046	NO	0.642	B	0.051	NO
		PM	0.565	A	0.591	A	0.026	NO	0.600	A	0.035	NO

[a] According to the City of Paramount, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Pre-Project V/C	LOS	Project Related Increase in V/C
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E,F	equal to or greater than 0.010

12.0 COUNTY OF LOS ANGELES TRAFFIC ANALYSIS

The traffic impact analysis prepared for the four study intersections located within the City of Paramount using ICU and HCM methodologies and application of the County of Los Angeles significant traffic impact criteria is summarized in ***Table 12–1***. The ICU and HCM data worksheets for the four analyzed intersections are contained in *Appendix E* and *F*, respectively.

12.1 Existing Conditions

As indicated in column [1] of *Table 12–1*, the four study intersections (all unsignalized) located in the County of Los Angeles are presently operating at LOS D or better during the weekday AM and PM peak hours under existing conditions. The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 5–1* and *5–2*, respectively.

12.2 Existing With Project Conditions

As shown in column [2] of *Table 12–1*, application of the County's threshold criteria to the "Existing With Project" scenario indicates that the proposed project is not expected to create significant impacts at three of the four study intersections located in the County of Los Angeles. As indicated in *Table 12–1*, a significant transportation impact is expected at the following intersections during the peak hours shown below under existing with project conditions:

- Int. No. 16: Erickson Avenue / Gardendale Street — AM Peak Hour *v/c* increases 0.170; PM Peak Hour *v/c* increased 0.134

Incremental, but not significant, impacts are noted at the other three study intersections due to the project. The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9–1* and *9–2*, respectively**.**

12.3 Future Cumulative With Project Conditions

The *v/c* ratios and delay values at all the County of Los Angeles study intersections are incrementally increased with the addition of traffic generated cumulative growth rates and the completion and operation of other related projects (including the project) listed in *Table 6–1*. As indicated in column [3] of *Table 12–1*, the proposed project contributes to a significant traffic impact at the following intersection during the peak hours shown below under future cumulative with project conditions:

- Int. No. 16: Erickson Avenue / Gardendale Street — AM Peak Hour v/c increases 0.195; PM Peak Hour v/c increases 0.153

Incremental, but not significant changes in v/c ratios are noted at the remaining study intersection due to the cumulative developments in the project vicinity. The future cumulative with project (existing, proposed project, and related projects) traffic volumes at the study intersections during the AM and PM peak hours are illustrated in *Figures 9–5* and *9–6*, respectively.

Table 12-1
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
COUNTY OF LOS ANGELES INTERSECTIONS

17-Jun-19

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING V/C	LOS	[2] YEAR 2017 W/ PROPOSED PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 W/ RELATED PROJECTS V/C	LOS	CHANGE V/C [(3)-(1)]	SIGNIF. IMPACT [a]	[4] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(4)-(1)]	MITI-GATED
13	Erickson Avenue /	AM	9.6	A	14.0	B	----	----	14.4	B	----	----	14.4	B	----	----
	W. Imperial Highway [b]	PM	8.3	A	9.5	A	----	----	9.6	B	----	----	9.6	B	----	----
		AM	0.269	----	0.389	----	0.120	NO	0.396	----	0.127	NO	0.396	----	0.127	N/A
		PM	0.193	----	0.246	----	0.053	NO	0.254	----	0.061	NO	0.254	----	0.061	N/A
14	Erickson Avenue /	AM	8.6	A	10.9	B	----	----	11.1	B	----	----	11.1	B	----	----
	E. Imperial Highway [b]	PM	8.2	A	10.1	B	----	----	10.4	B	----	----	10.4	B	----	----
		AM	0.238	----	0.380	----	0.142	NO	0.386	----	0.148	NO	0.386	----	0.148	N/A
		PM	0.231	----	0.326	----	0.095	NO	0.336	----	0.105	NO	0.336	----	0.105	N/A
16	Erickson Avenue /	AM	30.9	D	> 50.0	F	----	----	> 50.0	F	----	----	----	----	----	----
	Gardendale Street [c]	PM	20.2	C	> 50.0	F	----	----	> 50.0	F	----	----	----	----	----	----
		AM	0.663	----	0.833	----	0.170	YES	0.858	----	0.195	YES	0.858	D	0.195	YES
		PM	0.474	----	0.608	----	0.134	YES	0.627	----	0.153	YES	0.627	B	0.153	YES
27	Erickson Avenue /	AM	8.0	A	9.9	A	----	----	10.1	B	----	----	10.1	B	----	----
	Amigos Avenue [b]	PM	7.8	A	9.2	A	----	----	9.3	B	----	----	9.3	B	----	----
		AM	0.177	----	0.313	----	0.136	NO	0.316	----	0.139	NO	0.316	----	0.139	N/A
		PM	0.153	----	0.238	----	0.085	NO	0.243	----	0.090	NO	0.243	----	0.090	N/A

[a] According to Los Angeles County Department of Public Works "Traffic Impact Analysis Report Guidelines, " January 1997, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Pre-Project V/C	LOS	Project Related Increase in V/C
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E,F	equal to or greater than 0.010

[b] All-Way Stop-Controlled Intersection.

[c] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

13.0 CITY OF LYNWOOD TRAFFIC ANALYSIS

The traffic impact analysis prepared for the two study intersections located within the City of Lynwood using the CMA methodology and application of the City of Lynwood significant traffic impact criteria is summarized in ***Table 13–1***. The CMA data worksheets for the seven analyzed intersections are contained in *Appendix G*.

13.1 Existing Conditions

13.1.1 *Existing Conditions*

As indicated in column [1] of *Table 13–1*, one of the two study intersections (both signalized) located in the City of Lynwood are presently operating at LOS D or better during the weekday AM and PM peak hours under existing conditions. The following intersection is currently operating at LOS E or worse during the peak hour shown below under existing conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour: *v/c* = 0.972, LOS E

The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 5–1* and *5–2*, respectively.

13.1.2 *Existing With Project Conditions*

As shown in column [2] of *Table 13–1*, application of the City's threshold criteria to the "Existing With Project" scenario indicates that the proposed project is expected to create significant impacts at one of the two study intersections located in the City of Lynwood. As indicated in *Table 13–1*, a significant transportation impact is expected at the following intersection during the peak hours shown below under existing with project conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour *v/c* increases 0.047

The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9–1* and *9–2*, respectively.

13.2 Future Cumulative Conditions

13.2.1 *Future Cumulative Without Project Conditions*

The future cumulative without project conditions were forecast based on the addition of the traffic generated by ambient annual growth rates and the completion and occupancy of the other related projects. The *v/c* ratios and delay value at the study intersections are incrementally increased with the addition of traffic generated by the other related projects (including the project) listed in *Table 6–1*. As indicated in *Table 13–1*, incremental changes in *v/c* ratios are noted at both study intersections due to the cumulative developments in the project vicinity.

As presented in column [3] of *Table 13–1*, one of the two study intersections is expected to operate at LOS D or better during the weekday AM and PM peak hours with the addition of

Table 13-1
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
CITY OF LYNWOOD INTERSECTIONS

03-Oct-18

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT V/C	LOS	CHANGE V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
1	Atlantic Avenue /	AM	0.740	C	0.778	C	0.038	NO	0.761	C	0.799	C	0.038	NO	0.799	C	0.038	N/A
	Imperial Highway	PM	0.674	B	0.693	B	0.019	NO	0.702	C	0.711	C	0.009	NO	0.711	C	0.009	N/A
3	Wright Road /	AM	0.972	E	1.019	F	0.047	YES	1.001	F	1.049	F	0.048	YES	0.922	E	-0.079	YES
	Imperial Highway	PM	0.817	D	0.826	D	0.009	NO	0.853	D	0.861	D	0.008	NO	0.802	D	-0.051	N/A

[a] According to the City of Lynwood, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final v/c	LOS	Project Related Increase in v/c
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E, F	equal to or greater than 0.010

growth in ambient traffic and related project traffic under the future cumulative without project conditions. The following intersection is expected to operate at LOS E or worse during the peak hour shown below under future cumulative without project conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour: *v/c* = 1.001, LOS F

The future cumulative without project traffic volumes at the study intersections during the AM and PM peak hours are illustrated in *Figures 9–3* and *9–4*, respectively.

13.2.2 *Future Cumulative With Project Conditions*

The future cumulative with project conditions were forecast based on the addition of traffic generated by the project plus completion and occupancy of other related projects. As shown in column [4] of *Table 12–3*, application of the City's threshold criteria to the "Future With Project" scenario as compared to the "Future Without Project" scenario indicates that the proposed project is expected to create a significant impact at one of the two study intersections located in the City of Lynwood. As indicated in *Table 13–1*, a significant transportation impact is expected at the following intersection during the peak hours shown below under future cumulative with project conditions:

- Int. No. 3: Wright Road / Imperial Highway — AM Peak Hour *v/c* increases 0.048

The future cumulative with project (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9–5* and *9–6*, respectively.

14.0 MITIGATION MEASURES

The significant pre-mitigation transportation impacts due to the project are identified in Sections 9.0 through 13.0 above for the study intersections located in Downey, South Gate, Paramount, Los Angeles County and Lynwood. Where deemed to be potentially feasible, transportation mitigation measures have been proposed to mitigate the impacts at the affected intersections.

14.1 City of Downey

As shown in *Table 9–1*, the project is forecast to cause significant traffic impacts at the following study intersections located in the City of Downey in the Existing with Project and Future with Project scenarios (except where noted):

- Int. No. 15: Industrial Avenue / Gardendale Street
- Int. No. 16: Erickson Avenue / Gardendale Street
- Int. No. 17: Arizona Avenue / Gardendale Street (Future with Project only)

As previously noted, all three intersections are stop-sign controlled, with stop signs controlling traffic from the minor side streets. Installation traffic signals may improve the Levels of Service at these stop-sign controlled intersections, thereby mitigating the potential traffic impacts associated with the project. However, there is insufficient side street volume to warrant the installation of traffic signals at the Industrial Avenue / Gardendale Street (Intersection No. 15) and Arizona Avenue / Gardendale Street (Intersection No. 17) intersections (i.e. the intersection does not meet signal warrants). The analysis of traffic signal warrants is discussed further in Section 15.0.

As shown in Column [5] of *Table 9–1* (City of Downey study intersections), the recommended mitigation measure for Intersection No. 16 would be installation of a traffic signal that would mitigate the effects of project traffic to a less-than-significant level at the Erickson Avenue / Gardendale Street intersection.

> **MM-1** Los Angeles County shall provide a fair share contribution towards the signalization of Intersection No. 16 (Erickson Avenue / Gardendale Street). Such payment shall be paid after approval of such signalization by the City of Downey and the City of South Gate.

It is noted, however, that the intersection is under the jurisdiction of the City of Downey (and City of South Gate and County of Los Angeles). As the County of Los Angeles does not have direct control over the operation of the intersection, it cannot guarantee that the City of Downey (and City of South Gate) will agree with implementation of the recommended mitigation measure. Therefore, if the City of Downey (and City of South Gate) does not permit construction of the improvements, the impact of the project would remain significant and unavoidable.

14.2 City of South Gate

As shown in *Table 10–1*, the project is forecast to cause significant traffic impacts at the following study intersections located in the City of South Gate in the Existing with Project and Future with Project scenarios:

- Int. No. 3: Wright Road / Imperial Highway
- Int. No. 7: Garfield Avenue / Monroe Avenue
- Int. No. 15: Industrial Avenue / Gardendale Street
- Int. No. 16: Erickson Avenue / Gardendale Street
- Int. No. 17: Arizona Avenue / Gardendale Street

As previously noted in Section 14.1 above, Intersection Nos. 15, and 16 are stop-sign controlled, with stop signs controlling traffic from the minor side streets. Similarly, Intersection No. 7 (Garfield Avenue / Monroe Avenue) is also stop-sign controlled, with stop signs controlling traffic from the minor side street. Installation traffic signals may improve the Levels of Service at these stop-sign controlled intersections, thereby mitigating the potential traffic impacts associated with the project. However, there is insufficient side street volume to warrant the installation of traffic signals at the Garfield Avenue / Monroe Avenue (Intersection No. 7), Industrial Avenue / Gardendale Street (Intersection No. 15), and Arizona Avenue / Gardendale Street (Intersection No. 17) intersections (i.e. the intersection does not meet signal warrants). Therefore, the traffic impacts due to the project are significant and unavoidable at Intersection Nos. 7, 15, and 17. The analysis of traffic signal warrants is discussed further in Section 15.0.

For Intersection No. 3 (Wright Road / Imperial Highway), the following mitigation measure is recommended:

> **MM-2** Los Angeles County shall provide a fair share contribution towards restriping the eastbound Imperial Highway approach to the Wright Road intersection to provide one left-turn lane, two through lanes, and one optional through/right-turn lane. The revised lane configurations can be implemented without modifying the existing curb-to-curb roadway width on Imperial Highway. Such payment shall be paid after approval of this improvement by the City of South Gate and the City of Lynwood.

As shown in Column [5] of *Table 10–1* (City of South Gate study intersections), the recommended mitigation measure would mitigate the effects of project traffic to a less-than-significant level at the Wright Road / Imperial Highway intersection (Intersection No. 3). It is noted, however, that the intersection is under the jurisdiction of the City of South Gate (and City of Lynwood). As the County of Los Angeles does not have direct control over the operation of the intersection, it cannot guarantee that the City of South Gate (and City of Lynwood) will agree with implementation of the recommended mitigation measure. Therefore, if the City of South

Gate (and City of Lynwood) does not permit construction of the improvements, the impact of the project at Intersection No. 3 would remain significant and unavoidable.

As shown in Column [5] of *Table 10–1* (City of South Gate study intersections), the recommended mitigation measure for Intersection No. 16 that would mitigate the effects of project traffic to a less-than-significant level at the Erickson Avenue / Gardendale Street intersection.

> **MM-1** Los Angeles County shall provide a fair share contribution towards the signalization of Intersection No. 16 (Erickson Avenue / Gardendale Street). Such payment shall be paid after approval of such signalization by the City of Downey and the City of South Gate.

It is noted, however, that the intersection is under the jurisdiction of the City of South Gate (and City of Downey and County of Los Angeles). As the County of Los Angeles does not have direct control over the operation of the intersection, it cannot guarantee that the City of South Gate (and City of Downey) will agree with implementation of the recommended mitigation measure. Therefore, if the City of South Gate (and City of Downey) does not permit construction of the improvements, the impact of the project would remain significant and unavoidable.

14.3 City of Paramount

As shown in *Table 11–1*, the project is forecast to cause significant traffic impacts at the following study intersections located in the City of Paramount:

- Int. No. 20: Paramount Boulevard / Gardendale Street (direct project and cumulative)

For Intersection No. 20 (Paramount Boulevard / Gardendale Street), the intersection is completely built-out. No street improvements would be possible without modifying the existing curb-to-curb street widths, which would likely require the acquisition of private property and removal of a business located adjacent to the intersection, which is considered infeasible. Therefore, as there are no reasonable or feasible mitigation measures available at this intersection, the impact of the project would remain significant and unavoidable.

14.4 County of Los Angeles

As shown in *Table 12–1*, the project is forecast to cause significant traffic impacts at the following study intersections located in the County of Los Angeles:

- Int. No. 16: Erickson Avenue / Gardendale Street (direct project and cumulative)

As previously noted in Section 14.1 above, Intersection No. 16 is stop-sign controlled, with stop signs controlling traffic from the minor side streets. As shown in Column [4] of *Table 10–1* (County of Los Angeles study intersections), the recommended mitigation measure for

Intersection 16 that would mitigate the effects of project traffic to a less-than-significant level at the Erickson Avenue / Gardendale Street intersection.

> **MM-1** Los Angeles County shall provide a fair share contribution towards the signalization of Intersection No. 16 (Erickson Avenue / Gardendale Street). Such payment shall be paid after approval of such signalization by the City of Downey and the City of South Gate.

It is noted, however, that the intersection is under the jurisdiction of the Cities of Downey and South Gate (and County of Los Angeles). As the County of Los Angeles does not have direct control over the operation of the intersection, it cannot guarantee that the Cities of Downey and South Gate will agree with implementation of the recommended mitigation measure. Therefore, if the Cities of Downey South Gate do not permit construction of the improvements, the impact of the project would remain significant and unavoidable.

14.5 City of Lynwood

As shown in *Table 13–1*, the project is forecast to cause significant traffic impacts at the following study intersection located in the City of Lynwood in the Existing with Project and Future with Project scenarios:

- Int. No. 3: Wright Road / Imperial Highway

As previously noted in Section 13.2 above, for Intersection No. 3 (Wright Road / Imperial Highway), the following mitigation measure is recommended:

> **MM-2** Los Angeles County shall provide a fair share contribution towards restriping the eastbound Imperial Highway approach to the Wright Road intersection to provide one left-turn lane, two through lanes, and one optional through/right-turn lane. The revised lane configurations can be implemented without modifying the existing curb-to-curb roadway width on Imperial Highway. Such payment shall be paid after approval of this improvement by the City of South Gate and the City of Lynwood.

As shown in Column [5] of *Table 13–1* (City of Lynwood study intersections), the recommended mitigation measure would mitigate the effects of project traffic at the Wright Road / Imperial Highway intersection to a less-than significant level. It is noted, however, that the intersection is under the jurisdiction of the City of Lynwood (and City of South Gate). As the County of Los Angeles does not have direct control over the operation of the intersection, it cannot guarantee that the City of Lynwood (and City of South Gate) will agree with implementation of the recommended mitigation measure. Therefore, if the City of Lynwood (and City of South Gate) does not permit construction of the improvements, the impact of the project would remain significant and unavoidable.

14.6 Residual Impacts

The following provides a summary of the potential transportation impacts of the project at the study intersections.

Significantly Impacted Intersections with No Feasible Mitigation. The project would cause a significant transportation impacts at the following study intersections for which there are no feasible mitigation measures:

- Int. No. 7: Garfield Avenue / Monroe Avenue (City of South Gate)
- Int. No. 15: Industrial Avenue / Gardendale Street (Cities of Downey and South Gate)
- Int. No. 17: Arizona Avenue / Gardendale Street (Cities of Downey and South Gate)
- Int. No. 20: Paramount Boulevard / Gardendale Street (Cities of South Gate and Paramount)

Significantly Impacted Intersections with Feasible Mitigation But Implementation is Not Guaranteed. The project would cause a significant transportation impacts at the following study intersections for which potential mitigation measures have been proposed, but implementation is not guaranteed because the intersections are outside the jurisdiction of the County of Los Angeles (therefore impacts are considered significant and unavoidable at these intersections):

- Int. No. 3: Wright Road / Imperial Highway (Cities of South Gate and Lynwood)
- Int. No. 16: Erickson Avenue / Gardendale Street (Cities of Downey and South Gate)

15.0 TRAFFIC SIGNAL WARRANT ANALYSIS

Traffic signal warrants were prepared for Garfield Avenue / Monroe Avenue (Intersection 7), Industrial Avenue / Gardendale Street (Intersection 15), Erickson Avenue / Gardendale Street (Intersection 16), and Arizona Avenue / Gardendale Street (Intersection 17). The traffic signal warrants were prepared based on criteria set forth in Chapter 4C of the *Manual on Uniform Traffic Control Devices (MUTCD)*[11]. Warrant No. 3 (Peak Hour Volume) traffic signal warrants were prepared for the four stop-controlled intersections. The traffic signal warrant calculations were based on existing traffic volumes and future forecast plus project traffic volumes along all approaches. Copies of the traffic signal warrant data worksheets are contained in ***Appendix G***.

15.1 Warrants Input Factors and Data

The following provides a summary of the warrants input factors assumed in the review and data collected in preparing the traffic signal warrant analysis:

- The Garfield Avenue / Monroe Avenue intersection is currently controlled by a stop sign facing the side street (Monroe Avenue) approach.

- The Industrial Avenue / Gardendale Street, Erickson Avenue / Gardendale Street, and Arizona Avenue / Gardendale Street intersections are currently controlled by a stop sign facing the side street (Industrial Avenue, Erickson Avenue, and Arizona Avenue) approaches.

- For the Garfield Avenue / Monroe Avenue intersection, Garfield Avenue was assumed to be the major street while Monroe Avenue was assumed to be the minor street.

- For the Industrial Avenue / Gardendale Street, Erickson Avenue / Gardendale Street, and Gardendale Street / Arizona Avenue intersections, Gardendale Street was assumed to be the major street while Industrial Avenue, Erickson Avenue, and Arizona Avenue were assumed to be the minor streets.

- Garfield Avenue and Gardendale Street are posted for a 35 miles per hour speed limit in the project vicinity. Industrial Avenue, Erickson Avenue, and Arizona Avenue are posted for a 25 miles per hour speed limit in the project vicinity.

- Manual peak hour traffic counts were conducted at the unsignalized intersections. Copies the traffic counts for the intersection and approaches are contained in *Appendix A*.

The future cumulative with project scenario evaluated existing traffic volumes, project-related traffic volumes, traffic from other related projects, as well as ambient traffic growth.

[11] *Manual on Uniform Traffic Control Devices (MUTCD),* 2014 California Supplement, November 7, 2014. http://www.dot.ca.gov/trafficops/camutcd/camutcd2014rev4.html

15.2 Traffic Signal Warrant Analysis

15.2.1 *Garfield Avenue / Monroe Avenue (Intersection No. 7)*

The following paragraphs provide a detailed discussion of the traffic signal warrant prepared for the Garfield Avenue / Monroe Avenue intersection.

Warrant 3: Peak Hour Volume Warrant

The Peak Hour Volume Warrant is applied for land uses that attract or discharge large numbers of vehicles over a short period of time. Warrant No. 3 is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 for the applicable number of approach lanes. The lower threshold for a major street approach with two or more lanes is 600 vehicles per hour while the lower threshold for a minor street approach with one lane is 100 vehicles per hour.

As indicated in Figure 4C-3 provided in *Appendix H*, the plotted points for the peak hours are below the applicable curve for future with project conditions for the Garfield Avenue / Monroe Avenue intersection. Therefore, Warrant No. 3 is not satisfied for the intersection under future with project conditions.

15.2.2 *Industrial Avenue / Gardendale Street (Intersection No. 15)*

The following paragraphs provide a detailed discussion of the traffic signal warrant prepared for the Industrial Avenue / Gardendale Street intersection.

Warrant 3: Peak Hour Volume Warrant

The Peak Hour Volume Warrant is applied for land uses that attract or discharge large numbers of vehicles over a short period of time. Warrant No. 3 is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 for the applicable number of approach lanes. The lower threshold for a major street approach with one lane is 500 vehicles per hour while the lower threshold for a minor street approach with one lane is 100 vehicles per hour.

As indicated in Figure 4C-3 provided in *Appendix H*, the plotted points for the peak hours are below the applicable curve for future with project conditions for the Industrial Avenue / Gardendale Street intersection. Therefore, Warrant No. 3 is not satisfied for the intersection under future with project conditions.

15.2.3 *Erickson Avenue / Gardendale Street (Intersection No. 16)*

The following paragraphs provide a detailed discussion of the traffic signal warrant prepared for the Erickson Avenue / Gardendale Street intersection.

Warrant 3: Peak Hour Volume Warrant

The Peak Hour Volume Warrant is applied for land uses that attract or discharge large numbers of vehicles over a short period of time. Warrant No. 3 is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 for the applicable number of approach lanes. The lower threshold for a major street approach with one lane is 500 vehicles per hour while the lower threshold for a minor street approach with one lane is 200 vehicles per hour.

As indicated in Figure 4C-3 provided in *Appendix H,* the plotted point for the PM peak hour is above the applicable curve, while the plotted point for the AM peak hour falls below the applicable curve for future with project conditions for the Erickson Avenue / Gardendale Street intersection. Therefore, Warrant No. 3 is satisfied for the intersection under future with project conditions for the PM peak hour.

15.2.4 *Arizona Avenue / Gardendale Street (Intersection No. 17)*

The following paragraphs provide a detailed discussion of the traffic signal warrant prepared for the Arizona Avenue / Gardendale Street intersection.

Warrant 3: Peak Hour Volume Warrant

The Peak Hour Volume Warrant is applied for land uses that attract or discharge large numbers of vehicles over a short period of time. Warrant No. 3 is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 for the applicable number of approach lanes. The lower threshold for a major street approach with one lane is 500 vehicles per hour while the lower threshold for a minor street approach with one lane is 100 vehicles per hour.

As indicated in Figure 4C-3 provided in *Appendix H,* the plotted points for the peak hours are below the applicable curve for future with project conditions for the Arizona Avenue / Gardendale Street intersection. Therefore, Warrant No. 3 is not satisfied for the intersection under future with project conditions.

15.3 Traffic Signal Warrants Conclusions

Table 15–1 provides a summary of the traffic signal warrants analysis prepared for the existing stop-sign controlled intersection and the future proposed traffic signal. The findings are provided below:

Garfield Avenue / Monroe Avenue

- The Warrant 3 (Peak Hour) is not satisfied for future plus project conditions.

Industrial Avenue / Gardendale Street

- The Warrant 3 (Peak Hour) is not satisfied for future plus project conditions.

Erickson Avenue / Gardendale Street

- The Warrant 3 (Peak Hour) is satisfied for cumulative future plus project conditions during the PM peak hour.

Arizona Avenue / Gardendale Street

- The Warrant 3 (Peak Hour) is not satisfied for future plus project conditions.

As noted in the MUTCD document, the satisfaction of traffic signal warrants does not necessarily justify the installation of a traffic signal, which are dependent on several factors, including policy decisions by local jurisdictions. Delay, congestion, approach conditions, driver behavior, intersection location/vicinity, and/or other evidence of the need for right-of-way assignment beyond that which could be provided by stop-sign control may also be demonstrated.

Table 15-1
TRAFFIC SIGNAL WARRANTS SUMMARY [A]

NO.	INTERSECTION	FUTURE + PROJECT WARRANT 3 PEAK HOUR SATISFIED? [B]
1	Garfield Avenue / Monroe Avenue	NO
2	Industrial Avenue / Gardendale Street	NO
3	Erickson Avenue / Gardendale Street	YES
4	Arizona Avenue / Gardendale Street	NO

[A] Traffic signal warrant analysis based on the Manual on Uniform Traffic Control Devices (MUTCD 2014 California Supplement, November 7, 2014.

[B] Traffic signal warrant data worksheets are contained in *Appendix G*.

16.0 CONGESTION MANAGEMENT PROGRAM TRAFFIC IMPACT ASSESSMENT

The Congestion Management Program (CMP) is a state-mandated program that was enacted by the California State Legislature with the passage of Proposition 111 in 1990. The program is intended to address the impact of local growth on the regional transportation system.

As required by the 2010 Congestion Management Program for Los Angeles County, a Traffic Impact Assessment (TIA) has been prepared to determine the potential impacts on designated monitoring locations on the CMP highway system. The analysis has been prepared in accordance with procedures outlined in the *2010 Congestion Management Program for Los Angeles County*, County of Los Angeles Metropolitan Transportation Authority, 2010.

According to Section D.9.1 (Appendix D, page D-6) of the 2010 CMP manual, the criteria for determining a significant transportation impact is listed below:

> "A significant transportation impact occurs when the proposed project increases traffic demand on a CMP facility by 2% of capacity (V/C $\geq$ 0.02), causing or worsening LOS F (V/C > 1.00)."

The CMP impact criteria apply for analysis of both intersection and freeway monitoring locations.

16.1 Intersections

The following CMP intersection monitoring locations in the Project vicinity have been identified:

- CMP Station — Intersection

  No. 4 — Lakewood Boulevard / Rosecrans Avenue

  No. 17 — Old River School Road / Firestone Boulevard

  No. 18 — Lakewood Boulevard / Firestone Boulevard

  No. 144 — Atlantic Avenue / Firestone Boulevard

The CMP TIA guidelines require that intersection monitoring locations must be examined if the proposed project will add 50 or more trips during either the AM or PM weekday peak hours. The proposed project would not add 50 or more trips during either the AM or PM weekday peak hours (i.e., of adjacent street traffic) to CMP monitoring intersections in the project vicinity, which is stated in the CMP manual as the threshold criteria (screening criteria) for a traffic impact assessment.

Specifically, the project is forecast to add the following peak hour traffic volumes to the CMP intersection monitoring locations:

- Lakewood Boulevard / Rosecrans Avenue:
    - 31 AM peak hour trips, 27 PM peak hour trips
- Old River School Road / Firestone Boulevard
    - 39 AM peak hour trips, 34 PM peak hour trips
- Lakewood Boulevard / Firestone Boulevard
    - 31 AM peak hour trips, 27 PM peak hour trips
- Atlantic Avenue / Firestone Boulevard
    - 39 AM peak hour trips, 34 PM peak hour trips

Therefore, no further review of potential impacts to intersection monitoring locations that are part of the CMP highway system is required.

16.2 Freeways

The following CMP freeway monitoring locations have been identified in the project vicinity:

CMP Station	Location
No. 1043	I-105 Freeway east of Harris Avenue
No. 1080	I-710 Freeway north of Firestone Boulevard

The CMP TIA guidelines require that freeway monitoring locations must be examined if the proposed project will add 150 or more trips (in either direction) during either the AM or PM weekday peak periods. The proposed project would not add 150 or more trips (in either direction) during either the AM or PM weekday peak hours to CMP freeway monitoring locations which is the threshold for preparing a traffic impact assessment, as stated in the CMP manual.

Specifically, the project is forecast to add the following peak hour traffic volumes to the CMP freeway monitoring locations:

- I-105 Freeway east of Harris Avenue:
    - 89 AM EB peak hour trips, 12 AM WB peak hour trips
    - 15 PM EB peak hour trips, 72 PM WB peak hour trips
- I-710 Freeway north of Firestone Boulevard

- 15 AM NB peak hour trips, 64 AM SB peak hour trips
- 88 PM NB peak hour trips, 11 PM SB peak hour trips

Therefore, no further review of potential impacts to freeway monitoring locations that are part of the CMP highway system is required.

16.3 Transit Impact Review

As required by the *2010 Congestion Management Program for Los Angeles County*, a review has been made of the potential impacts of the project on transit service[12]. As discussed in Subsection 4.4 above, existing transit service is provided in the vicinity of the proposed Rancho Los Amigos South Campus project.

The project trip generation, as shown in *Table 7–1*, was adjusted by values set forth in the CMP (i.e., person trips equal 1.4 times vehicle trips, and transit trips equal 3.5 percent of the total person trips) to estimate transit trip generation. Pursuant to the CMP guidelines, the proposed project is forecast to generate demand for 51 transit trip during the AM peak hour and 43 transit trip during the PM peak hour. Over a 24-hour period, the proposed project is forecast to generate demand for 365 daily transit trips. Therefore, the calculations are as follows:

- AM Peak Hour = 1,038 × 1.4 × 0.035 = 51 Transit Trips
- PM Peak Hour = 884 × 1.4 × 0.035 = 43 Transit Trips
- Daily Trips = 7,443 × 1.4 × 0.035 = 365 Transit Trips

As shown in *Table 4–1*, 11 bus and train transit lines are provided near the project site. The current service provides 103 buses and trains during the AM peak hour and 98 buses and trains during the PM peak hour. Therefore, on average the project would add less than one new transit rider per transit bus/train route during the weekday AM and PM peak hours. As shown in ***Table 16–1***, the 11 bus and train transit lines provided near the project site have an average capacity of 12,568 transit trips during the AM peak hour and 12,311 transit trips during the PM peak hour. As such, it is anticipated that the existing transit service in the project area will adequately accommodate the increase of project-generated transit trips. No project impacts on existing or future transit services in the project area are expected to occur as a result of the proposed project.

[12] OPR's December 2018 Technical Advisory on Evaluating Transportation Impacts under CEQA explains "When evaluating impacts to multimodal transportation networks, lead agencies generally should not treat the addition of new transit users as an adverse impact." (OPR Technical Advisory, p. 19.) As also discussed in OPR's SB743 amendment package transmittal letter "Legislative findings in Senate Bill 743 plainly state that CEQA can no longer treat vibrant communities, transit, and active transportation options as adverse environmental outcomes."Similarly, the state has implemented a number of policies to encourage development in proximity to transit and to foster additional transit use to reduce environmental impacts. (SB 375; see also the SCAG 2016 RTP, which includes expanding access to transit.) However, the current 2010 CMP still requests a transit impact analysis.

Table 16-1
EXISTING TRANSIT SERVICE CAPACITY

09-Oct-18

ROUTE [A]	NO. OF BUSES/TRAINS DURING PEAK HOUR			CAPACITY PER BUS [A]	TOTAL TRANSIT CAPACITY	
	DIR	AM	PM		AM	PM
Metro 117	EB	8	8	50	400	400
	WB	7	6	50	350	300
Metro 120	EB	3	5	50	150	250
	WB	6	4	50	300	200
Metro 258	NB	3	3	50	150	150
	SB	3	3	50	150	150
Metro 265	NB	3	2	50	150	100
	SB	1	2	50	50	100
Metro 266	NB	6	4	50	300	200
	SB	4	4	50	200	200
Metro Rapid 762	NB	5	4	75	375	300
	SB	5	5	75	375	375
Metro Green Line	EB	17	17	266	4522	4522
	WB	17	17	266	4522	4522

Table 16-1 (Continued)
EXISTING TRANSIT SERVICE CAPACITY

ROUTE	NO. OF BUSES/TRAINS DURING PEAK HOUR			CAPACITY PER BUS [A]	TOTAL TRANSIT CAPACITY	
	DIR	AM	PM		AM	PM
DowneyLink Southwest	CW	2	3	50	100	150
	CCW	0	0	50	0	0
DowneyLink Southeast	CW	5	4	50	250	200
	CCW	0	0	50	0	0
G.A.T.E. Eastside	CW	0	0	24	0	0
	CCW	4	4	24	96	96
Lynwood Route B	CW	4	3	32	128	96
	CCW	0	0	32	0	0
TOTAL TRANSIT CAPACITY					**12568**	**12311**

[A] Capacity Assumptions:
Metro Regular Bus / DowneyLink Bus - 40 seated / 50 sseated and standing
Metro Rapid Bus - 66 seated / 75 seated and standing

17.0 CALTRANS FREEWAY OFF-RAMP ASSESSMENT

Three off-ramps, one from the I-710 Freeway, and two from the I-105 Freeway, were analyzed to determine the whether the length of the ramps were sufficient to accommodate vehicle queue lengths. The queue lengths were estimated using methodology provided in the *Highway Capacity Manual* (HCM) published by the Transportation Research Board.

The assessment of the off-ramps includes a review of the vehicle queue length as compared to the total available queueing capacity of the ramp to determine whether the vehicle queue would extend beyond the length of the ramp onto the mainline. To this end, the queueing analysis looks at two separate components of the ramp capacity: the length of each approach lane to the intersection, and the remaining length of the ramp, behind any approach lane delineation lines, to the point where the ramp diverges from the freeway mainline. The queue may exceed the striped length of a given approach lane, as long as there is sufficient additional queueing capacity on the ramp, it will not spill over onto the mainline. HCM reports the 95th percentile queue length, in feet, for each approach lane on the off-ramp. The HCM data worksheets for the three analyzed off-ramps are contained in *Appendix F*.

17.1 Existing Conditions

17.1.1 *Existing Conditions*

As shown in ***Table 17–1***, none of three analyzed freeway off-ramps exceed the available storage on the ramp during the AM and PM peak hours under existing conditions. The existing traffic volumes at the off-ramp study intersections during the weekday AM and PM peak hours are displayed in *Figures 5–1* and *5–2*, respectively.

17.1.2 *Existing With Project Conditions*

As shown in *Table 17–1*, none of the three analyzed freeway off-ramps exceed the available storage on the ramp during the AM and PM peak hours under "Existing With Project" conditions. The existing with project traffic volumes at the analyzed off-ramps during the weekday AM and PM peak hours are illustrated in *Figures 9–1* and *9–2*, respectively.

17.2 Future Cumulative Conditions

17.2.1 *Future Cumulative Without Conditions*

The future cumulative without project conditions were forecast based on the addition of the traffic generated by ambient annual growth rates and the completion and occupancy of the other related projects. As presented in ***Table 17–2***, none of the study intersections are expected to exceed the available storage on the ramp during the weekday AM and PM peak hours with the addition of growth in ambient traffic and related project traffic under the future cumulative without project conditions. The future cumulative without project traffic volumes at the analyzed off-ramps during the AM and PM peak hours are illustrated in *Figures 9–3* and *9–4*, respectively.

Table 17-1
FREEWAY OFF-RAMP QUEUE EVALUATION
EXISTING OPERATING CONDITIONS (YEAR 2017)

15-Oct-18

NO.	INTERSECTION	RAMP AND LANE DESCRIPTION	VEHICLE STORAGE CAPACITY [a]	EXISTING CONDITIONS				EXISTING WITH PROJECT CONDITIONS			
				AM PEAK HOUR		PM PEAK HOUR		AM PEAK HOUR		PM PEAK HOUR	
				VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?	VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?	VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?	VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?
2	Wright Road /	I-710 Southbound Off-Ramp									
	I-710 SB Off-Ramp - Abbott Road	Shared Left/Through	690	176	NO	171	NO	191	NO	174	NO
		Shared Through/Right	690	164	NO	158	NO	183	NO	161	NO
		Ramp	530	0	NO	0	NO	0	NO	0	NO
11	Garfield Avenue /	I-105 Eastbound Off-Ramp									
	S. Somerset Ranch Road	Shared Left/Through	589	364	NO	360	NO	415	NO	367	NO
		Through	589	329	NO	326	NO	370	NO	333	NO
		Right	589	406	NO	379	NO	402	NO	379	NO
		Ramp	1279	0	NO	0	NO	0	NO	0	NO
21	Paramount Boulevard /	I-105 Westbound Off-Ramp									
	N. Somerset Ranch Road	Left	425	160	NO	178	NO	156	NO	175	NO
		Through	425	385	NO	297	NO	376	NO	293	NO
		Right	425	271	NO	270	NO	346	NO	279	NO
		Ramp	1180	0	NO	0	NO	0	NO	0	NO

[a] Expressed in feet.
[b] 95th Percentile queue results per 2010 Highway Capacity Manual, Transportation Research Board, 2010

Table 17-2
FREEWAY OFF-RAMP QUEUE EVALUATION
FUTURE OPERATING CONDITIONS (YEAR 2021)

15-Oct-18

NO.	INTERSECTION	RAMP AND LANE DESCRIPTION	VEHICLE STORAGE CAPACITY [a]	FUTURE WITHOUT PROJECT CONDITIONS				FUTURE WITH PROJECT CONDITIONS			
				AM PEAK HOUR		PM PEAK HOUR		AM PEAK HOUR		PM PEAK HOUR	
				VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?	VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?	VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?	VEHICLE QUEUE LENGTH	EXCEEDS CAPACITY?
2	Wright Road /	I-710 Southbound Off-Ramp									
	I-710 SB Off-Ramp - Abbott Road	Shared Left/Through	690	187	NO	185	NO	200	NO	188	NO
		Shared Through/Right	690	173	NO	170	NO	192	NO	174	NO
		Ramp	530	0	NO	0	NO	0	NO	0	NO
11	Garfield Avenue /	I-105 Eastbound Off-Ramp									
	S. Somerset Ranch Road	Shared Left/Through	589	356	NO	364	NO	407	NO	373	NO
		Through	589	322	NO	329	NO	362	NO	337	NO
		Right	589	418	NO	389	NO	416	NO	389	NO
		Ramp	1279	0	NO	0	NO	0	NO	0	NO
21	Paramount Boulevard /	I-105 Westbound Off-Ramp									
	N. Somerset Ranch Road	Left	425	165	NO	186	NO	164	NO	183	NO
		Through	425	396	NO	309	NO	395	NO	304	NO
		Right	425	255	NO	273	NO	332	NO	282	NO
		Ramp	1180	0	NO	0	NO	0	NO	0	NO

[a] Expressed in feet.
[b] 95th Percentile queue results per 2010 Highway Capacity Manual, Transportation Research Board, 2010

17.2.2 *Future Cumulative Without Conditions*

As shown in *Table 17–2*, none of the three analyzed freeway off-ramps exceed the available storage on the ramp during the AM and PM peak hours under "Future Cumulative With Project" conditions. The future cumulative with project traffic volumes at the analyzed off-ramps during the weekday AM and PM peak hours are illustrated in *Figures 9–5* and *9–6*, respectively.

18.0 CONSTRUCTION IMPACT ASSESSMENT

18.1 Construction Assumptions

There are two phases related to construction of the proposed project, each with separate trip generation characteristics. First is the shoring/excavation phase which generally results in the highest number of truck trips per day as compared to other phases of project construction. Second is the building construction phase which typically generates the highest number of construction workers on site as compared to other phases of construction.

Shoring/Excavation

The shoring/excavation phase of the project would result in the need to export approximately 5,333 cubic yards of material from the project site. During this phase, hauling of material from the Project Site would occur on weekdays between 7:00 AM and 3:00 PM (i.e., an 8-hour period). Up to 226 truck one-way trips per day (i.e., 113 inbound and 113 outbound), or approximately 14 trucks per hour, carrying approximately 12 cubic yards of material per truck are expected. It is anticipated that soils for campus grading would be balanced on site over a period of 10 hauling days. The removal of the 5,333 cubic yards of material for soil remediation would occur over a period of 15 hauling days.

The primary route to be used by haul trucks traveling to and from the project site will include the following two designated truck-routes: Imperial Highway and the I-710 (Long Beach) Freeway.

In addition to the trips by hauling trucks, there would be 40 one-way trips per day by construction workers (20 inbound and 20 outbound) related to the shoring/excavation phase.

Building Construction

Building construction is estimated to occur over an 18-month period. During peak construction activity, it is estimated that approximately 830 construction workers will be on-site per day. The 830 construction workers would generate approximately 1,660 one-way trips per day (830 inbound and 830 outbound), as well as 698 daily one-way trips by miscellaneous delivery trucks (349 inbound and 349 outbound).

Building construction is assumed to occur on weekdays between 7:00 AM and 7:00 PM.

Construction Worker Parking and Roadway/Sidewalk Closures

Parking for construction workers would be provided within the project site by the County. Street parking by construction workers would not be permitted.

The construction of the project would not require the closure of any vehicle travel lanes adjacent to the site (i.e., on Imperial Highway and Gardendale Street). Also, construction of the proposed project is not expected to result in the loss of any street parking or require the temporary closure of any existing sidewalks. The Design-Builder/Contractor would prepare a work site traffic

control plan prior to the start of construction. That plan would show the location of any warning signs and access to abutting properties.

18.2 Vehicle Trip Generation

The potential transportation impacts of the project at build-out and occupancy are assessed in Sections 9.0 through 13.0 herein based on the evaluation of operations at local intersections during the weekday morning (AM) and afternoon (PM) commuter peak hours. Set forth below is a similar forecast of trip generation related to project construction, which is provided for the AM and PM peak hours for comparison purposes to the project at build-out. Also provided for informational purposes is a forecast of the weekday daily (24-hour) trip generation related to construction of the project.

In addition to the construction assumptions outlined in the prior section, the following additional assumptions are made relative to vehicular trip generation during the construction period:

- Typically, most construction workers arrive and depart the worksite outside of the commuter peak hours. For this analysis, it has been conservatively assumed that 20% of the inbound daily trips would arrive at the project site during the AM peak hour and that 20% of the outbound daily trips would depart the project site during the PM peak hour.

- Trucks utilize more of the physical roadway as compared to passenger cars and small trucks. Thus, for trips generated by trucks, a passenger car equivalency (PCE) factor of 2.0 has been assumed based on factors provided in the *Highway Capacity Manual* published by the Transportation Research Board.

Table 18–1 provides the trip generation forecast related to construction of the Project. As shown in *Table 18–1*, the forecast trip generation by phase of construction is as follows:

- Shoring/Excavation
    - 492 daily trips (246 inbound/246 outbound)
    - 32 AM peak hour trips (18 inbound/14 outbound)
    - 6 PM peak hour trips (0 inbound/6 outbound)

- Building Construction
    - 3,056 daily trips (1,528 inbound/1,528 outbound)
    - 306 AM peak hour trips (236 inbound/70 outbound)
    - 306 PM peak hour trips (70 inbound/236 outbound)

Table 18-1
CONSTRUCTION TRIP GENERATION [1]

08-Jul-19

PHASE	DAILY TRIP ENDS VOLUMES	AM PEAK HOUR VOLUMES			PM PEAK HOUR VOLUMES		
		IN	OUT	TOTAL	IN	OUT	TOTAL
Shoring / Excavation							
Construction Workers	40	4	0	4	0	6	6
Trucks	226	7	7	14	0	0	0
PCE (2.0) Adjusted [2]	452	14	14	28	0	0	0
Phase Subtotal (PCE Adjusted)	**492**	**18**	**14**	**32**	**0**	**6**	**6**
Building Construction							
Construction Workers	1,660	166	0	166	0	166	166
Trucks	698	35	35	70	35	35	70
PCE (2.0) Adjusted [2]	1,396	70	70	140	70	70	140
Phase Subtotal (PCE Adjusted)	**3,056**	**236**	**70**	**306**	**70**	**236**	**306**

[1] Source: ESA
[2] A Passenger Car Equivalent (PCE) factor of 2.0 was applied to all trucks based on standard traffic engineering practice to conservatively estimate the equivalent number of vehicles associated with the trucks.

18.3 Transportation Assessment

Table 7–1 provides the trip generation forecast for the Project at build-out. As shown in *Table 7–1*, the project is forecast to generate 7,443 net new trips during a typical weekday, including 1,038 net new AM peak hour trips and 884 net new PM peak hour trips. By comparison, the shoring/excavation phase is estimated to generate 492 daily trips, 32 AM peak hour trips and 6 PM peak hour trips while the building construction phase is estimated to generate 3,056 daily trips, 306 AM peak hour trips and 306 PM peak hour trips. Thus, construction activity at the project site would generate significantly fewer trips than the operation of the project following its completion.

It is reasonable to conclude that the potential transportation impacts related to construction of the project have been suitably evaluated through the transportation impact analysis provided herein for the project at build-out. In addition, the potential transportation impacts related to be construction would be substantially less as compared to the project's operational trips due to the relatively lower trip generation associated with construction as compared to project operation. Therefore, no additional impacts associated with construction of the project would occur.

19.0 CONCLUSIONS

This traffic impact analysis has been prepared to evaluate the potential impacts to the local street system due to the Rancho Los Amigos South Campus project. Twenty-seven intersections were identified and analyzed in the County of Los Angeles, as well as the nearby cities of Downey, South Gate, Paramount and Lynwood in order to determine changes in operations following construction and occupancy of the proposed project. The project is forecast to cause significant traffic impacts during the weekday AM and/or PM peak hours at six of the 27 intersections evaluated.

The following provides a summary of the potential transportation impacts of the project at the study intersections.

Significantly Impacted Intersections with No Feasible Mitigation. The project would cause a potentially significant transportation impacts at the following study intersections for which there are no reasonable and feasible mitigation measures:

- Int. No. 7: Garfield Avenue / Monroe Avenue (City of South Gate)
- Int. No. 15: Industrial Avenue / Gardendale Street (Cities of Downey and South Gate)
- Int. No. 17: Arizona Avenue / Gardendale Street (Cities of Downey and South Gate)
- Int. No. 20: Paramount Boulevard / Gardendale Street (City of Paramount)

Significantly Impacted Intersections with Potentially Feasible Mitigation But Implementation is Not Guaranteed. The project would cause a potentially significant transportation impacts at the following study intersections for which potential mitigation measures have been proposed, but implementation is not guaranteed because the intersections are outside the jurisdiction of the County of Los Angeles:

- Int. No. 3: Wright Road / Imperial Highway (Cities of South Gate and Lynwood)
- Int. No. 16: Erickson Avenue / Gardendale Street (Cities of Downey and South Gate, County of Los Angeles)

APPENDIX A

MANUAL TRAFFIC COUNT DATA

Prepared by National Data & Surveying Services

Atlantic Ave & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-001
City: Lynwood

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
04:15 PM - 05:15 PM	04:00 PM - 06:00 PM

Atlantic Ave — SOUTHBOUND

AM	171	555	310	0	740	AM
NOON	0	0	0	0	0	NOON
PM	156	589	230	0	745	PM
	1	2	1	0		

Imperial Hwy — EASTBOUND

AM	NOON	PM	
1220	0	1122	⇦
0	0	0	0
83	0	90	1
633	0	780	2
76	0	62	0
AM	NOON	PM	

CONTROL

Signalized

TEV	3994 AM	0 NOON	3936 PM
PHF	0.98		0.99

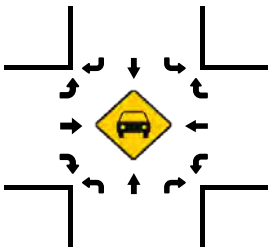
Imperial Hwy — WESTBOUND

PM	NOON	AM	
96	0	63	0
793	0	866	2
133	0	116	1
4	0	2	0
1285	0	1287	⇨
PM	NOON	AM	

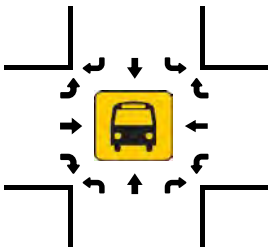
Atlantic Ave — NORTHBOUND

PM	784	0	173	559	271	PM
NOON	0	0	0	0	0	NOON
AM	747	0	183	594	342	AM
		0	1	2	1	

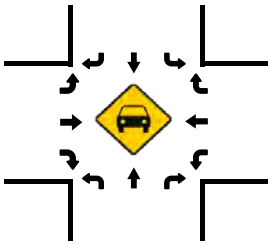
Total Vehicles (AM)



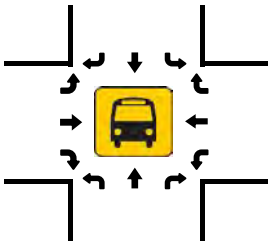
Total Vehicles (AM)



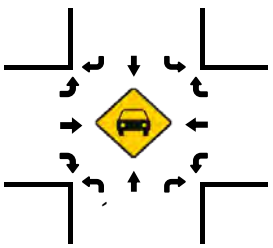
Total Vehicles (NOON)



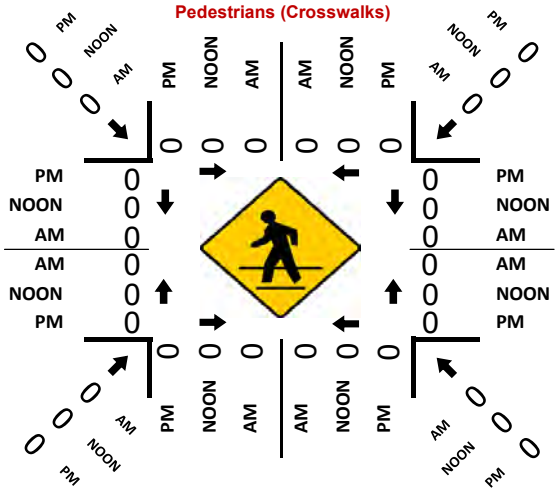
Total Vehicles (NOON)



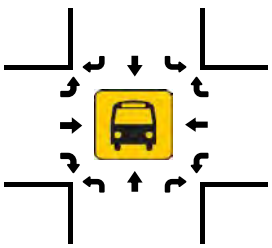
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Atlantic Ave & Imperial Hwy
City: Lynwood
Control: Signalized

Project ID: 17-05668-001
Date: 10/11/2017

Total

NS/EW Streets:	Atlantic Ave				Atlantic Ave				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	1	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	38	112	98	0	55	85	46	0	11	173	12	0	16	287	12	0	945
7:15 AM	36	172	117	0	75	148	38	0	21	129	8	0	14	214	13	0	985
7:30 AM	47	131	78	0	77	128	42	0	14	175	16	0	35	224	11	1	979
7:45 AM	52	154	95	0	84	138	51	0	15	148	25	0	33	201	24	1	1021
8:00 AM	48	137	52	0	74	141	40	0	33	181	27	0	34	227	15	0	1009
8:15 AM	36	150	65	0	58	158	55	0	19	150	26	0	38	200	15	0	970
8:30 AM	33	116	50	0	53	110	36	0	21	162	21	0	35	235	23	0	895
8:45 AM	31	108	44	0	48	110	39	0	20	123	14	0	32	184	25	1	779
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	321	1080	599	0	524	1018	347	0	154	1241	149	0	237	1772	138	3	7583
APPROACH %'s :	16.05%	54.00%	29.95%	0.00%	27.74%	53.89%	18.37%	0.00%	9.97%	80.38%	9.65%	0.00%	11.02%	82.42%	6.42%	0.14%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	183	594	342	0	310	555	171	0	83	633	76	0	116	866	63	2	3994
PEAK HR FACTOR :	0.880	0.863	0.731	0.000	0.923	0.938	0.838	0.000	0.629	0.874	0.704	0.000	0.829	0.954	0.656	0.500	0.978
	0.861				0.949				0.822				0.948				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	1	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	34	128	69	0	55	126	42	0	31	204	13	0	27	203	22	1	955
4:15 PM	44	151	75	0	64	163	46	0	25	172	12	0	34	171	22	2	981
4:30 PM	41	127	71	0	52	128	35	0	20	222	15	0	35	209	29	2	986
4:45 PM	47	145	69	0	59	164	33	0	21	170	24	0	34	190	22	0	978
5:00 PM	41	136	56	0	55	134	42	0	24	216	11	0	30	223	23	0	991
5:15 PM	41	141	76	0	54	156	41	0	13	156	12	0	32	171	31	2	926
5:30 PM	29	126	73	0	40	151	35	0	21	222	10	0	42	215	20	1	985
5:45 PM	54	156	84	0	50	130	42	0	26	174	12	0	24	185	24	0	961
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	331	1110	573	0	429	1152	316	0	181	1536	109	0	258	1567	193	8	7763
APPROACH %'s :	16.43%	55.11%	28.45%	0.00%	22.61%	60.73%	16.66%	0.00%	9.91%	84.12%	5.97%	0.00%	12.73%	77.34%	9.53%	0.39%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	173	559	271	0	230	589	156	0	90	780	62	0	133	793	96	4	3936
PEAK HR FACTOR :	0.920	0.925	0.903	0.000	0.898	0.898	0.848	0.000	0.900	0.878	0.646	0.000	0.950	0.889	0.828	0.500	0.993
	0.929				0.893				0.907				0.929				

Prepared by National Data & Surveying Services

Wright Rd & I-710 SB Off-Ramp/Abbott Rd

Peak Hour Turning Movement Count

ID: 17-05668-002
City: Lynwood

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	
AM	07:00 AM - 08:00 AM
NOON	NONE
PM	05:00 PM - 06:00 PM

COUNT PERIODS	
AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

SOUTHBOUND — Wright Rd

	L	T	R	U	Total	
AM	15	452	0	0	563	AM
NOON	0	0	0	0	0	NOON
PM	9	474	0	0	750	PM
	0	2	0	0		

EASTBOUND — I-710 SB Off-Ramp/Abbott Rd

AM	NOON	PM	
859	0	846	
0	0	0	0
9	0	17	0
0	0	0	2
671	0	522	0

WESTBOUND — I-710 SB Off-Ramp/Abbott Rd

	PM	NOON	AM
0.5	53	0	35
1	397	0	506
0.5	55	0	52
0	0	0	0
	0	0	0

NORTHBOUND — Wright Rd

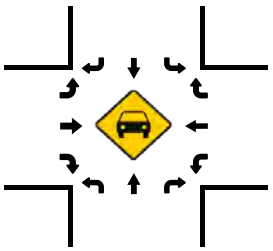
	L	T	R	U	Total	
PM	1051	0	440	680	0	PM
NOON	0	0	0	0	0	NOON
AM	1175	0	338	519	0	AM
	0	1	2	0		

CONTROL

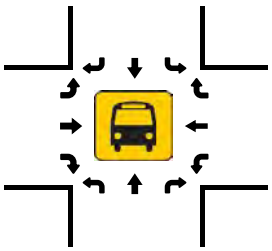
Signalized

TEV	2597 AM	0 NOON	2647 PM
PHF	0.97		0.95

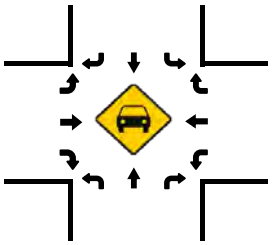
Total Vehicles (AM)



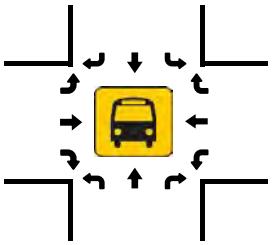
Total Vehicles (AM)



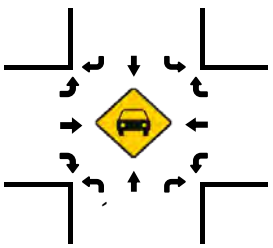
Total Vehicles (NOON)



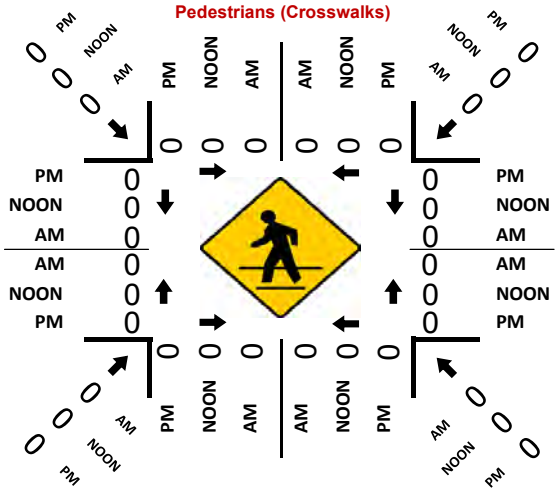
Total Vehicles (NOON)



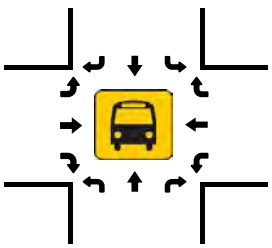
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Wright Rd & I-710 SB Off-Ramp/Abbott Rd
City: Lynwood
Control: Signalized

Project ID: 17-05668-002
Date: 10/11/2017

Total

NS/EW Streets:	Wright Rd				Wright Rd				I-710 SB Off-Ramp/Abbott Rd				I-710 SB Off-Ramp/Abbott Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	0	2	0	0	0	2	0	0	0.5	1	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	99	145	0	0	0	108	3	0	2	0	141	0	7	120	7	0	632
7:15 AM	80	122	0	0	0	108	2	0	2	0	215	0	13	119	7	0	668
7:30 AM	67	131	0	0	0	115	4	0	2	0	169	0	14	138	7	0	647
7:45 AM	92	121	0	0	0	121	6	0	3	0	146	0	18	129	14	0	650
8:00 AM	102	132	0	0	0	95	1	0	1	0	96	0	16	121	12	0	576
8:15 AM	90	102	0	0	0	97	0	0	3	0	123	1	22	107	9	0	554
8:30 AM	85	121	0	0	0	97	2	0	2	0	92	0	13	118	2	0	532
8:45 AM	56	121	0	0	0	75	2	0	3	0	107	0	14	91	14	0	483
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	671	995	0	0	0	816	20	0	18	0	1089	1	117	943	72	0	4742
APPROACH %'s :	40.28%	59.72%	0.00%	0.00%	0.00%	97.61%	2.39%	0.00%	1.62%	0.00%	98.29%	0.09%	10.34%	83.30%	6.36%	0.00%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	338	519	0	0	0	452	15	0	9	0	671	0	52	506	35	0	2597
PEAK HR FACTOR :	0.854	0.895	0.000	0.000	0.000	0.934	0.625	0.000	0.750	0.000	0.780	0.000	0.722	0.917	0.625	0.000	0.972
	0.878				0.919				0.783				0.921				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	0	2	0	0	0	2	0	0	0.5	1	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	93	150	0	0	0	113	3	0	2	0	96	1	19	76	12	0	565
4:15 PM	100	167	0	0	0	127	1	0	9	0	139	0	19	67	12	0	641
4:30 PM	106	161	0	0	0	116	2	0	2	0	100	0	12	76	17	0	592
4:45 PM	113	157	0	0	0	90	3	0	5	0	123	0	14	76	10	0	591
5:00 PM	110	171	0	0	0	118	0	0	4	0	129	0	10	91	17	0	650
5:15 PM	111	173	0	0	0	103	3	0	4	0	124	0	14	109	16	0	657
5:30 PM	114	159	0	0	0	120	4	0	5	0	126	0	12	96	7	0	643
5:45 PM	105	177	0	0	0	133	2	0	4	0	143	0	19	101	13	0	697
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	852	1315	0	0	0	920	18	0	35	0	980	1	119	692	104	0	5036
APPROACH %'s :	39.32%	60.68%	0.00%	0.00%	0.00%	98.08%	1.92%	0.00%	3.44%	0.00%	96.46%	0.10%	13.01%	75.63%	11.37%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	440	680	0	0	0	474	9	0	17	0	522	0	55	397	53	0	2647
PEAK HR FACTOR :	0.965	0.960	0.000	0.000	0.000	0.891	0.563	0.000	0.850	0.000	0.913	0.000	0.724	0.911	0.779	0.000	0.949
	0.986				0.894				0.917				0.908				

Prepared by National Data & Surveying Services

Wright Rd & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-003
City: Lynwood

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	
AM	07:00 AM - 08:00 AM
NOON	NONE
PM	05:00 PM - 06:00 PM

COUNT PERIODS	
AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

Wright Rd — SOUTHBOUND

AM	46	36	1162	0	836	AM
NOON	0	0	0	0	0	NOON
PM	21	93	957	0	1125	PM
	1	0.5	1.5	0		

Imperial Hwy — EASTBOUND

AM	NOON	PM	
1065	0	1047	
0	0	0	0
7	0	10	1
1302	0	1226	2
11	0	12	0
AM	NOON	PM	

CONTROL

Signalized

TEV	4905 AM	0 NOON	4756 PM
PHF	0.97		0.99

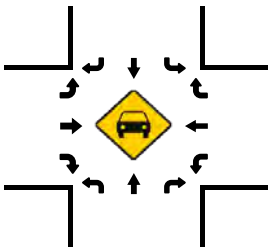
Imperial Hwy — WESTBOUND

PM	NOON	AM	
1060	0	776	1
998	0	1005	2
0	0	0	0
0	0	0	0
2479	0	2957	
PM	NOON	AM	

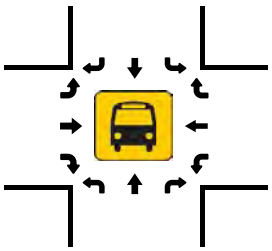
	0	0.3	0.3	1.3	
PM	105	0	28	55	296	PM
NOON	0	0	0	0	0	NOON
AM	47	0	14	53	493	AM

Wright Rd — NORTHBOUND

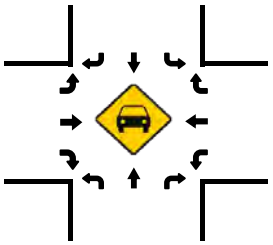
Total Vehicles (AM)



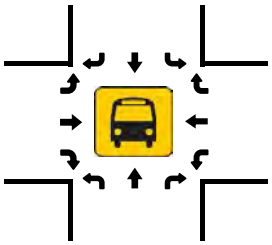
Total Vehicles (AM)



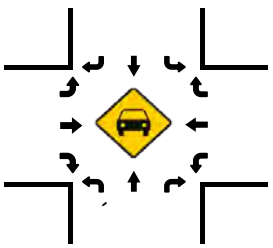
Total Vehicles (NOON)



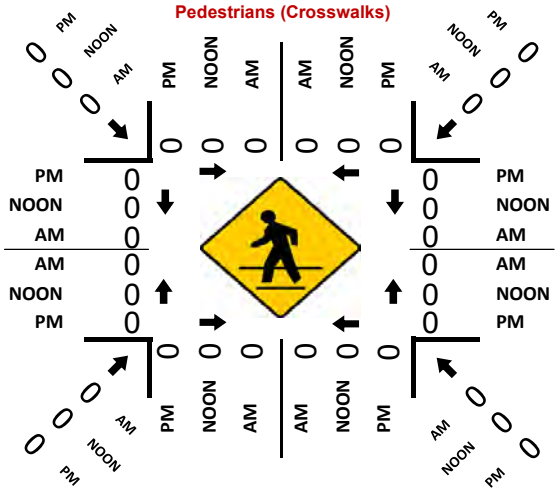
Total Vehicles (NOON)



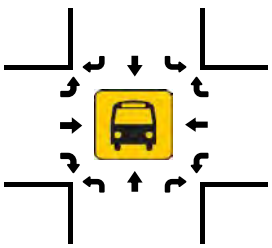
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Wright Rd & Imperial Hwy
City: Lynwood
Control: Signalized

Project ID: 17-05668-003
Date: 10/11/2017

Total

NS/EW Streets:	Wright Rd				Wright Rd				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0.3	0.3	1.3	0	1.5	0.5	1	0	1	2	0	0	0	2	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	7	19	99	0	264	10	8	0	2	305	1	0	0	262	207	0	1184
7:15 AM	1	7	155	0	324	6	8	0	0	328	3	0	0	243	186	0	1261
7:30 AM	1	14	119	0	321	7	15	0	2	327	2	0	0	238	187	0	1233
7:45 AM	5	13	120	0	253	13	15	0	3	342	5	0	0	262	196	0	1227
8:00 AM	7	12	82	0	232	10	11	0	6	275	6	0	0	238	227	0	1106
8:15 AM	8	11	67	0	203	9	22	0	6	287	6	0	0	243	203	0	1065
8:30 AM	11	14	71	0	196	23	9	0	3	245	7	0	0	258	180	0	1017
8:45 AM	7	15	80	0	180	12	8	0	4	228	5	1	0	226	161	0	927
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	47	105	793	0	1973	90	96	0	26	2337	35	1	0	1970	1547	0	9020
APPROACH %'s :	4.97%	11.11%	83.92%	0.00%	91.38%	4.17%	4.45%	0.00%	1.08%	97.42%	1.46%	0.04%	0.00%	56.01%	43.99%	0.00%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	14	53	493	0	1162	36	46	0	7	1302	11	0	0	1005	776	0	4905
PEAK HR FACTOR :	0.500	0.697	0.795	0.000	0.897	0.692	0.767	0.000	0.583	0.952	0.550	0.000	0.000	0.959	0.937	0.000	0.972
		0.859				0.907				0.943				0.949			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0.3	0.3	1.3	0	1.5	0.5	1	0	1	2	0	0	0	2	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	6	8	77	0	214	25	6	0	6	302	4	0	0	227	247	0	1122
4:15 PM	4	15	84	0	253	13	6	0	4	304	6	0	0	231	253	0	1173
4:30 PM	5	14	82	0	244	21	7	0	7	321	6	0	0	253	259	0	1219
4:45 PM	7	13	77	0	199	17	6	0	3	291	7	0	0	244	252	0	1116
5:00 PM	7	8	67	0	233	21	2	0	4	312	5	0	0	254	270	0	1183
5:15 PM	12	20	95	0	223	20	10	0	1	293	3	0	0	233	274	0	1184
5:30 PM	4	12	67	0	240	16	8	0	3	324	2	0	0	267	254	0	1197
5:45 PM	5	15	67	0	261	36	1	0	2	297	2	0	0	244	262	0	1192
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	50	105	616	0	1867	169	46	0	30	2444	35	0	0	1953	2071	0	9386
APPROACH %'s :	6.49%	13.62%	79.90%	0.00%	89.67%	8.12%	2.21%	0.00%	1.20%	97.41%	1.39%	0.00%	0.00%	48.53%	51.47%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	28	55	296	0	957	93	21	0	10	1226	12	0	0	998	1060	0	4756
PEAK HR FACTOR :	0.583	0.688	0.779	0.000	0.917	0.646	0.525	0.000	0.625	0.946	0.600	0.000	0.000	0.934	0.967	0.000	0.993
		0.746				0.898				0.948				0.982			

Prepared by National Data & Surveying Services

Ruchti Rd/Garfield Pl & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-004
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	
AM	07:15 AM - 08:15 AM
NOON	NONE
PM	04:30 PM - 05:30 PM

COUNT PERIODS	
AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

Ruchti Rd/Garfield Pl — SOUTHBOUND

	L	T	R	U	
AM	14	14	16	0	94
NOON	0	0	0	0	0
PM	40	23	35	0	64

Imperial Hwy — EASTBOUND

	L	T	R	
AM	1	32	1816	493
NOON	0	0	0	0
PM	0	22	1646	464
	0	1	3	0

Imperial Hwy — WESTBOUND

	L	T	R	
PM	31	1591	0	1705
NOON	0	0	0	0
AM	31	1706	0	1837
	0	3	0	0

Ruchti Rd/Garfield Pl — NORTHBOUND

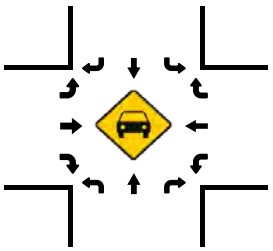
	L	T	R	U	
PM	487	0	421	11	24
NOON	0	0	0	0	0
AM	507	0	600	31	5
	0	2	0.5	0.5	

CONTROL

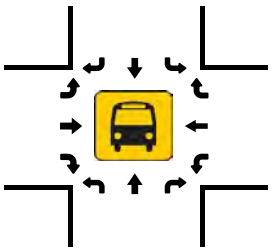
Signalized

		AM	NOON	PM
TEV	4759	0	4308	
PHF		0.91		0.96

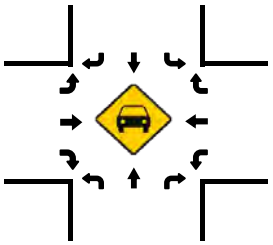
Total Vehicles (AM)



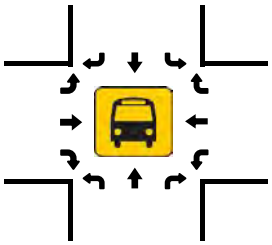
Total Vehicles (AM)



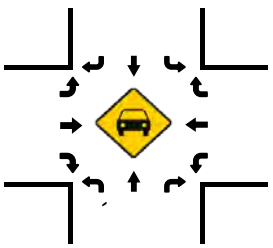
Total Vehicles (NOON)



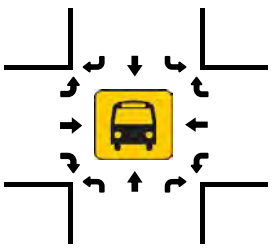
Total Vehicles (NOON)



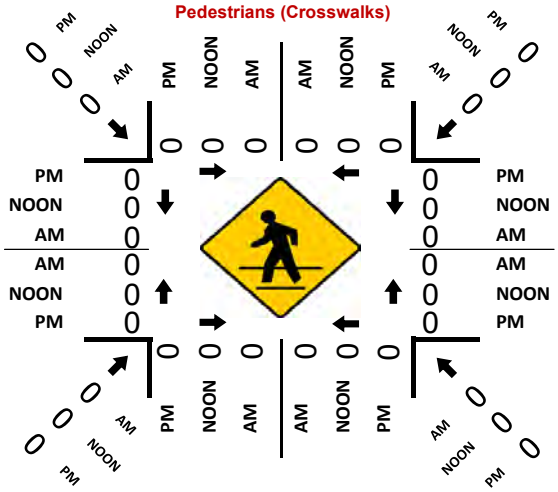
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Ruchti Rd/Garfield Pl & Imperial Hwy
City: South Gate
Control: Signalized

Project ID: 17-05668-004
Date: 10/11/2017

Total

NS/EW Streets:	Ruchti Rd/Garfield Pl				Ruchti Rd/Garfield Pl				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	0.5	0.5	0	0	1	0	0	1	3	0	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	162	6	2	0	3	4	2	0	4	376	65	0	0	430	8	0	1062
7:15 AM	121	6	1	0	8	3	5	0	3	484	89	0	0	450	5	0	1175
7:30 AM	174	5	2	0	3	2	4	0	9	454	132	0	0	423	11	0	1219
7:45 AM	138	16	1	0	3	3	1	0	12	483	158	1	0	478	7	0	1301
8:00 AM	167	4	1	0	2	6	4	0	8	395	114	0	0	355	8	0	1064
8:15 AM	159	5	3	0	1	2	2	0	4	371	89	0	0	353	12	0	1001
8:30 AM	111	3	1	0	1	1	7	0	10	364	62	0	0	325	4	0	889
8:45 AM	109	4	2	0	1	2	5	0	7	384	64	0	0	283	4	0	865
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1141	49	13	0	22	23	30	0	57	3311	773	1	0	3097	59	0	8576
APPROACH %'s :	94.85%	4.07%	1.08%	0.00%	29.33%	30.67%	40.00%	0.00%	1.38%	79.94%	18.66%	0.02%	0.00%	98.13%	1.87%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	600	31	5	0	16	14	14	0	32	1816	493	1	0	1706	31	0	4759
PEAK HR FACTOR :	0.862	0.484	0.625	0.000	0.500	0.583	0.700	0.000	0.667	0.938	0.780	0.250	0.000	0.892	0.705	0.000	0.914
	0.878				0.688				0.895				0.895				

NS/EW Streets:	Ruchti Rd/Garfield Pl				Ruchti Rd/Garfield Pl				Imperial Hwy				Imperial Hwy				
PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	0.5	0.5	0	0	1	0	0	1	3	0	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	95	3	6	0	6	6	5	0	5	397	102	1	0	368	8	0	1002
4:15 PM	80	4	6	0	5	4	9	0	8	428	101	0	0	349	7	0	1001
4:30 PM	138	5	9	0	16	3	17	0	3	399	114	0	0	387	7	0	1098
4:45 PM	96	1	4	0	5	5	9	0	6	437	112	0	0	403	8	0	1086
5:00 PM	97	3	7	0	6	12	10	0	6	361	100	0	0	394	11	0	1007
5:15 PM	90	2	4	0	8	3	4	0	7	449	138	0	0	407	5	0	1117
5:30 PM	101	2	6	0	5	4	3	0	0	414	127	1	0	370	11	0	1044
5:45 PM	83	2	2	0	4	6	6	0	6	421	161	0	0	332	4	0	1027
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	780	22	44	0	55	43	63	0	41	3306	955	2	0	3010	61	0	8382
APPROACH %'s :	92.20%	2.60%	5.20%	0.00%	34.16%	26.71%	39.13%	0.00%	0.95%	76.81%	22.19%	0.05%	0.00%	98.01%	1.99%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	421	11	24	0	35	23	40	0	22	1646	464	0	0	1591	31	0	4308
PEAK HR FACTOR :	0.763	0.550	0.667	0.000	0.547	0.479	0.588	0.000	0.786	0.916	0.841	0.000	0.000	0.977	0.705	0.000	0.964
	0.750				0.681				0.897				0.984				

Prepared by National Data & Surveying Services

Garfield Ave & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-005
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:00 AM - 08:00 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Garfield Ave — SOUTHBOUND

	L	T	R	U	Total	
AM	325	401	116	0	1193	AM
NOON	0	0	0	0	0	NOON
PM	299	487	140	0	791	PM
	1	2	2	0		

Imperial Hwy — EASTBOUND

AM	NOON	PM	
1820	0	1627	⇦
0	0	0	0
186	0	199	1
1568	0	1465	3
29	0	19	0
AM	NOON	PM	

CONTROL

Signalized

	AM	NOON	PM
TEV	5443	0	4869
PHF	0.96		0.98

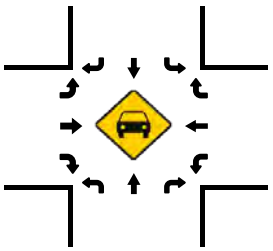
Imperial Hwy — WESTBOUND

PM	NOON	AM	
0	107	0	181
3	1254	0	1433
1	138	0	150
0	0	0	0
⇨	1807	0	1850
PM	NOON	AM	

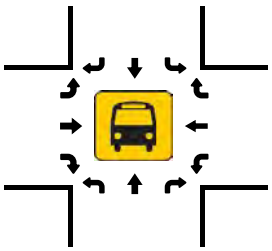
Garfield Ave — NORTHBOUND

	L	T	R	U	Total	
PM	644	0	74	485	202	PM
NOON	0	0	0	0	0	NOON
AM	580	0	62	826	166	AM
	0	1	2	0		

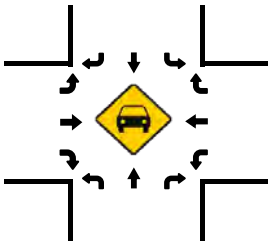
Total Vehicles (AM)



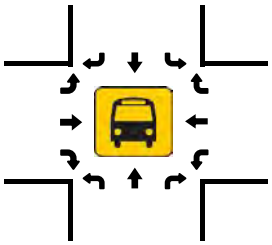
Total Vehicles (AM)



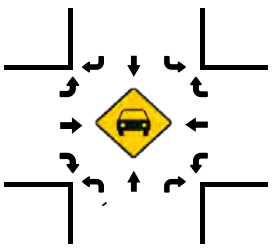
Total Vehicles (NOON)



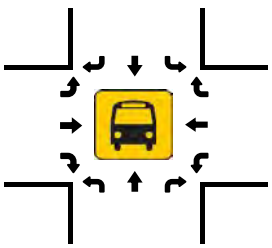
Total Vehicles (NOON)



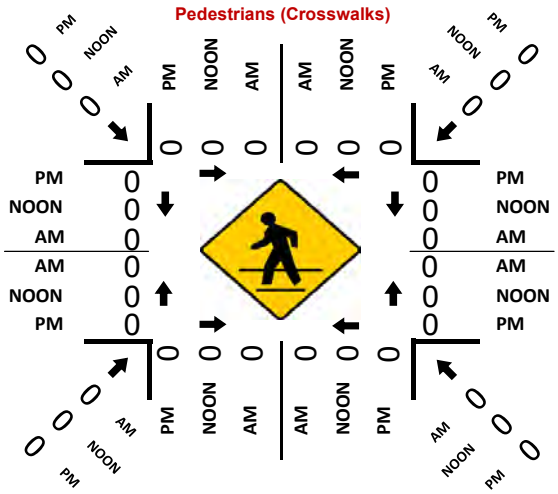
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Garfield Ave & Imperial Hwy
City: South Gate
Control: Signalized

Project ID: 17-05668-005
Date: 10/11/2017

Total

NS/EW Streets:	Garfield Ave				Garfield Ave				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	2	2	1	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	8	189	48	0	22	78	75	0	47	340	8	0	32	386	50	0	1283
7:15 AM	15	232	38	0	19	96	83	0	52	401	4	0	42	334	40	0	1356
7:30 AM	18	200	36	0	36	108	77	0	41	438	9	0	44	375	42	0	1424
7:45 AM	21	205	44	0	39	119	90	0	46	389	8	0	32	338	49	0	1380
8:00 AM	11	191	37	0	45	84	57	0	45	388	6	0	41	317	51	0	1273
8:15 AM	18	217	48	0	20	87	51	0	37	309	8	0	38	277	35	0	1145
8:30 AM	28	180	39	0	28	67	49	0	21	338	10	0	28	280	46	0	1114
8:45 AM	16	157	37	0	21	68	64	0	38	332	4	0	14	201	41	0	993
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	135	1571	327	0	230	707	546	0	327	2935	57	0	271	2508	354	0	9968
APPROACH %'s :	6.64%	77.27%	16.08%	0.00%	15.51%	47.67%	36.82%	0.00%	9.85%	88.43%	1.72%	0.00%	8.65%	80.05%	11.30%	0.00%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	62	826	166	0	116	401	325	0	186	1568	29	0	150	1433	181	0	5443
PEAK HR FACTOR :	0.738	0.890	0.865	0.000	0.744	0.842	0.903	0.000	0.894	0.895	0.806	0.000	0.852	0.928	0.905	0.000	0.956
	0.925				0.849				0.913				0.942				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	2	2	1	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	14	126	46	0	28	112	71	0	53	327	6	0	30	259	25	0	1097
4:15 PM	17	118	48	0	35	95	70	0	49	375	7	0	32	297	27	0	1170
4:30 PM	25	130	58	0	37	113	63	0	57	354	8	0	31	300	26	0	1202
4:45 PM	19	112	47	0	36	119	78	0	48	392	4	0	33	324	26	0	1238
5:00 PM	14	126	55	0	24	140	83	0	52	335	3	0	47	318	28	0	1225
5:15 PM	16	117	42	0	43	115	75	0	42	384	4	0	27	312	27	0	1204
5:30 PM	28	109	57	0	27	107	50	0	43	383	5	0	29	303	28	0	1169
5:45 PM	16	119	51	0	29	123	65	0	54	357	9	0	34	257	21	0	1135
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	149	957	404	0	259	924	555	0	398	2907	46	0	263	2370	208	0	9440
APPROACH %'s :	9.87%	63.38%	26.75%	0.00%	14.90%	53.16%	31.93%	0.00%	11.88%	86.75%	1.37%	0.00%	9.26%	83.42%	7.32%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	74	485	202	0	140	487	299	0	199	1465	19	0	138	1254	107	0	4869
PEAK HR FACTOR :	0.740	0.933	0.871	0.000	0.814	0.870	0.901	0.000	0.873	0.934	0.594	0.000	0.734	0.968	0.955	0.000	0.983
	0.893				0.937				0.948				0.954				

Prepared by National Data & Surveying Services

Garfield Ave & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-006
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

Garfield Ave — SOUTHBOUND

AM	33	611	415	0	1730	AM
NOON	0	0	0	0	0	NOON
PM	60	699	484	0	1029	PM
	0	2	2	0		

Gardendale St — EASTBOUND

AM	NOON	PM	
72	0	111	
0	0	0	0
73	0	41	0
59	0	26	2
11	0	9	0
AM	NOON	PM	

CONTROL

Signalized

TEV	3049	0	2492
	AM	NOON	PM
PHF	0.92		0.97

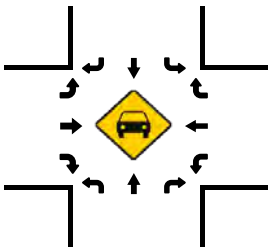
Gardendale St — WESTBOUND

PM	NOON	AM	
347	0	736	2
37	0	34	0.5
83	0	121	0.5
0	0	0	0
561	0	504	
PM	NOON	AM	

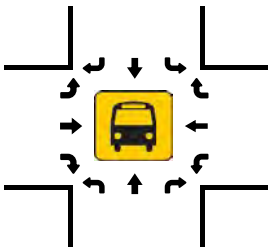
Garfield Ave — NORTHBOUND

PM	791	0	14	641	51	PM
NOON	0	0	0	0	0	NOON
AM	743	0	5	921	30	AM
		0	1	2	0	

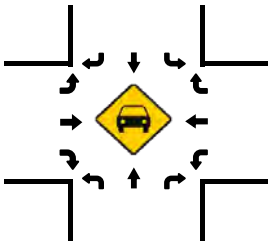
Total Vehicles (AM)



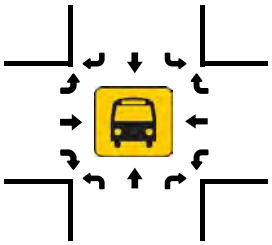
Total Vehicles (AM)



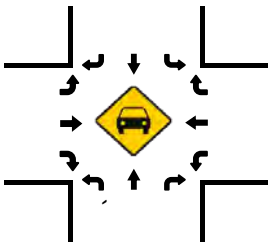
Total Vehicles (NOON)



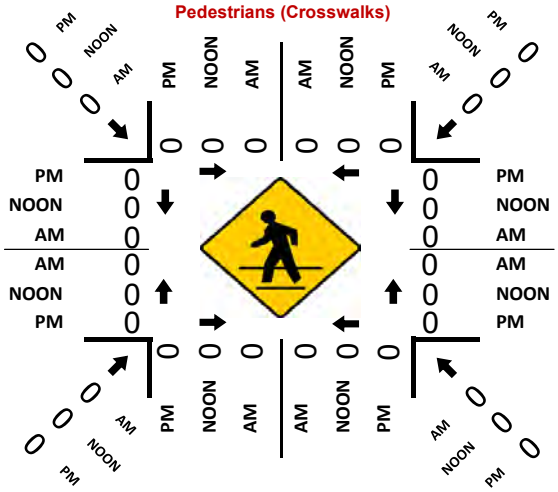
Total Vehicles (NOON)



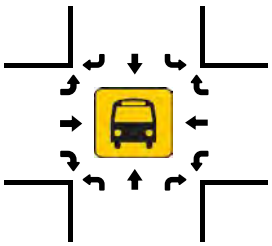
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Garfield Ave & Gardendale St
City: South Gate
Control: Signalized

Project ID: 17-05668-006
Date: 10/11/2017

Total

NS/EW Streets:	Garfield Ave				Garfield Ave				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	2	2	0	0	0	2	0	0	0.5	0.5	2	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	1	219	4	0	41	106	5	0	22	9	2	0	13	3	163	0	588
7:15 AM	0	214	4	0	80	117	6	0	21	20	4	0	24	7	177	0	674
7:30 AM	1	239	5	0	114	172	11	0	19	24	2	0	38	4	198	0	827
7:45 AM	2	208	7	0	146	148	5	0	19	18	1	0	33	7	206	0	800
8:00 AM	0	207	10	0	78	163	10	0	23	11	3	0	31	14	178	0	728
8:15 AM	2	267	8	0	77	128	7	0	12	6	5	0	19	9	154	0	694
8:30 AM	1	209	5	0	54	108	6	0	15	5	2	0	7	9	115	0	536
8:45 AM	0	192	6	0	33	95	6	0	12	5	1	0	4	4	117	0	475
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	7	1755	49	0	623	1037	56	0	143	98	20	0	169	57	1308	0	5322
APPROACH %'s :	0.39%	96.91%	2.71%	0.00%	36.31%	60.43%	3.26%	0.00%	54.79%	37.55%	7.66%	0.00%	11.02%	3.72%	85.27%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	5	921	30	0	415	611	33	0	73	59	11	0	121	34	736	0	3049
PEAK HR FACTOR :	0.625	0.862	0.750	0.000	0.711	0.888	0.750	0.000	0.793	0.615	0.550	0.000	0.796	0.607	0.893	0.000	0.922
	0.863				0.885				0.794				0.905				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	2	2	0	0	0	2	0	0	0.5	0.5	2	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	4	165	11	0	111	184	15	0	10	9	3	0	18	14	65	0	609
4:15 PM	6	158	8	0	103	129	12	0	12	9	1	0	13	8	85	0	544
4:30 PM	5	203	10	0	116	164	8	0	6	8	4	0	16	4	88	0	632
4:45 PM	1	144	12	0	118	162	13	0	11	10	4	0	14	13	88	0	590
5:00 PM	1	160	14	0	127	181	15	0	9	2	2	0	18	7	80	0	616
5:15 PM	5	173	14	0	124	169	8	0	9	9	2	0	24	11	97	0	645
5:30 PM	7	148	5	0	133	160	20	0	16	4	1	0	17	8	86	0	605
5:45 PM	1	160	18	0	100	189	17	0	7	11	4	0	24	11	84	0	626
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	30	1311	92	0	932	1338	108	0	80	62	21	0	144	76	673	0	4867
APPROACH %'s :	2.09%	91.49%	6.42%	0.00%	39.19%	56.27%	4.54%	0.00%	49.08%	38.04%	12.88%	0.00%	16.13%	8.51%	75.36%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	14	641	51	0	484	699	60	0	41	26	9	0	83	37	347	0	2492
PEAK HR FACTOR :	0.500	0.926	0.708	0.000	0.910	0.925	0.750	0.000	0.641	0.591	0.563	0.000	0.865	0.841	0.894	0.000	0.966
	0.919				0.962				0.864				0.884				

Prepared by National Data & Surveying Services

Garfield Ave & Monroe Ave

Peak Hour Turning Movement Count

ID: 17-05668-007
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

Garfield Ave — SOUTHBOUND

AM	11	732	0	0	955	AM
NOON	0	0	0	0	0	NOON
PM	71	717	0	0	715	PM

EASTBOUND — Monroe Ave

AM	NOON	PM	
29	0	114	⇦
0	0	0	↰ 0
6	0	20	↱ 0
13	0	8	→ 1
23	0	24	↳ 0
AM	NOON	PM	

WESTBOUND — Monroe Ave

PM	NOON	AM	
2	0	2	0 ↰
2	0	3	1 ←
6	0	5	0 ↰
0	0	0	0 ↰
49	0	55	⇨
PM	NOON	AM	

CONTROL: 2-Way Stop(EB/WB)

TEV	1802 AM	0 NOON	1625 PM
PHF	0.93		0.96

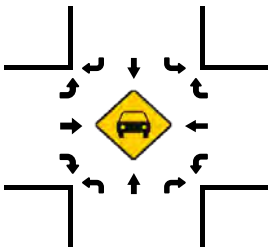
NORTHBOUND — Garfield Ave

PM	747	0	41	693	41	PM
NOON	0	0	0	0	0	NOON
AM	763	3	15	947	42	AM

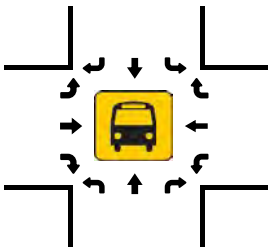
0 2 0 0 (EB turning movements)

0 0 2 0 (NB turning movements)

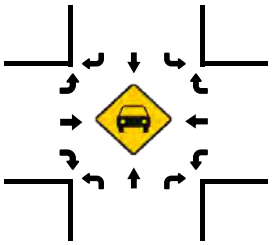
Total Vehicles (AM)



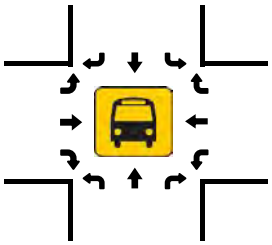
Total Vehicles (AM)



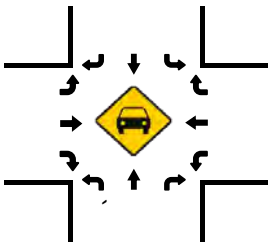
Total Vehicles (NOON)



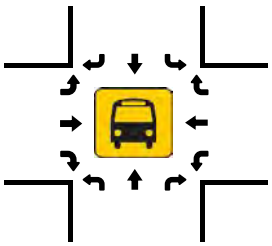
Total Vehicles (NOON)



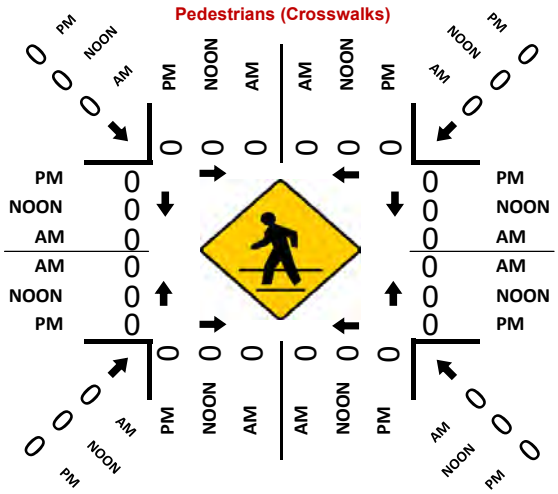
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Garfield Ave & Monroe Ave
City: South Gate
Control: 2-Way Stop(EB/WB)

Project ID: 17-05668-007
Date: 10/11/2017

Total

NS/EW Streets:	Garfield Ave				Garfield Ave				Monroe Ave				Monroe Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	4	215	10	0	0	118	3	0	4	3	4	0	1	1	3	0	366
7:15 AM	3	234	8	0	0	142	5	0	0	2	6	0	0	1	0	0	401
7:30 AM	3	241	12	1	0	207	4	0	2	4	7	0	3	0	0	0	484
7:45 AM	4	218	15	2	0	182	1	0	1	1	6	0	1	2	2	0	435
8:00 AM	5	218	7	0	0	195	3	0	3	4	8	0	1	1	0	0	445
8:15 AM	3	270	8	0	0	148	3	0	0	4	2	0	0	0	0	0	438
8:30 AM	2	209	2	1	0	117	1	0	4	2	1	0	0	0	0	0	339
8:45 AM	1	194	3	0	0	96	4	0	3	2	5	0	1	0	1	0	310
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	25	1799	65	4	0	1205	24	0	17	22	39	0	7	5	6	0	3218
APPROACH %'s :	1.32%	95.03%	3.43%	0.21%	0.00%	98.05%	1.95%	0.00%	21.79%	28.21%	50.00%	0.00%	38.89%	27.78%	33.33%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	15	947	42	3	0	732	11	0	6	13	23	0	5	3	2	0	1802
PEAK HR FACTOR :	0.750	0.877	0.700	0.375	0.000	0.884	0.688	0.000	0.500	0.813	0.719	0.000	0.417	0.375	0.250	0.000	0.931
		0.896				0.880				0.700				0.500			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	4	159	12	0	0	194	8	0	4	5	4	0	1	2	0	0	393
4:15 PM	6	178	3	0	0	135	5	0	1	2	5	0	2	0	1	0	338
4:30 PM	8	212	8	0	0	170	12	0	3	2	5	0	1	1	0	0	422
4:45 PM	8	155	14	0	0	170	6	0	3	5	6	0	2	2	1	0	372
5:00 PM	6	180	3	0	0	196	7	0	5	1	6	0	5	1	1	0	411
5:15 PM	11	177	16	0	0	175	19	0	3	2	7	0	0	0	0	0	410
5:30 PM	13	168	12	0	0	163	14	0	5	1	4	0	0	0	0	0	380
5:45 PM	11	168	10	0	0	183	31	0	7	4	7	0	1	1	1	0	424
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	67	1397	78	0	0	1386	102	0	31	22	44	0	12	7	4	0	3150
APPROACH %'s :	4.35%	90.60%	5.06%	0.00%	0.00%	93.15%	6.85%	0.00%	31.96%	22.68%	45.36%	0.00%	52.17%	30.43%	17.39%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	41	693	41	0	0	717	71	0	20	8	24	0	6	2	2	0	1625
PEAK HR FACTOR :	0.788	0.963	0.641	0.000	0.000	0.915	0.573	0.000	0.714	0.500	0.857	0.000	0.300	0.500	0.500	0.000	0.958
		0.950				0.921				0.722				0.357			

Prepared by National Data & Surveying Services

Monroe Ave & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-008
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Monroe Ave — SOUTHBOUND

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	0	0	0	0	PM

Gardendale St — EASTBOUND

AM	NOON	PM	
928	0	457	⇦
0	0	0	0 ↶
0	0	0	0 ↱
509	0	575	1 →
2	0	0	0 ↴

CONTROL

1-Way Stop(NB)

TEV	1510	0	1099
	AM	NOON	PM
PHF	0.87		0.90

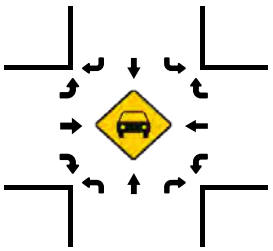
WESTBOUND — Gardendale St

PM	NOON	AM	
0	0	0	0 ↶
456	0	923	1 ←
13	0	12	0 ↰
0	0	0	0 ↩
629	0	568	⇨

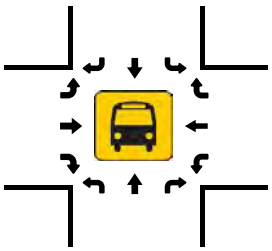
Monroe Ave — NORTHBOUND

PM	13	0	1	0	54	PM
NOON	0	0	0	0	0	NOON
AM	14	0	5	0	59	AM

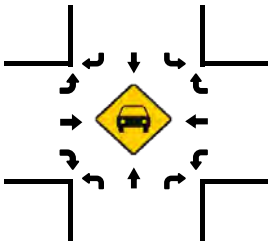
Total Vehicles (AM)



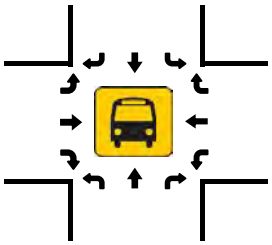
Total Vehicles (AM)



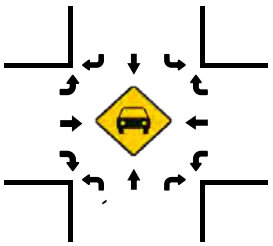
Total Vehicles (NOON)



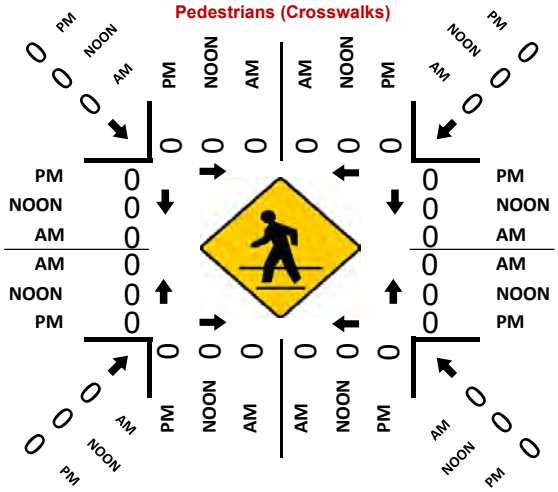
Total Vehicles (NOON)



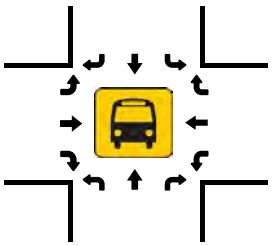
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Monroe Ave & Gardendale St
City: South Gate
Control: 1-Way Stop(NB)

Project ID: 17-05668-008
Date: 10/11/2017

Total

NS/EW Streets:	Monroe Ave				Monroe Ave				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	12	0	0	0	0	0	0	57	0	0	3	170	0	0	242
7:15 AM	1	0	14	0	0	0	0	0	0	99	0	0	2	206	0	0	322
7:30 AM	1	0	20	0	0	0	0	0	0	146	0	0	4	245	0	0	416
7:45 AM	1	0	14	0	0	0	0	0	0	167	2	0	4	248	0	0	436
8:00 AM	2	0	11	0	0	0	0	0	0	97	0	0	2	224	0	0	336
8:15 AM	0	0	11	0	0	0	0	0	0	92	0	0	0	169	0	0	272
8:30 AM	0	0	4	0	0	0	0	0	0	62	1	0	1	130	0	0	198
8:45 AM	0	0	5	0	0	0	0	0	0	44	0	0	2	124	0	0	175
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	5	0	91	0	0	0	0	0	0	764	3	0	18	1516	0	0	2397
APPROACH %'s :	5.21%	0.00%	94.79%	0.00%					0.00%	99.61%	0.39%	0.00%	1.17%	98.83%	0.00%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	5	0	59	0	0	0	0	0	0	509	2	0	12	923	0	0	1510
PEAK HR FACTOR :	0.625	0.000	0.738	0.000	0.000	0.000	0.000	0.000	0.000	0.762	0.250	0.000	0.750	0.930	0.000	0.000	0.866
	0.762								0.756				0.928				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	14	0	0	0	0	0	0	141	0	0	7	97	0	0	259
4:15 PM	0	0	7	0	0	0	0	0	0	123	0	0	1	107	0	0	238
4:30 PM	1	0	11	0	0	0	0	0	0	144	0	0	3	109	0	0	268
4:45 PM	0	0	19	0	0	0	0	0	0	136	0	0	5	107	0	0	267
5:00 PM	0	0	4	0	0	0	0	0	0	148	0	0	5	103	0	0	260
5:15 PM	0	0	20	0	0	0	0	0	0	147	0	0	0	137	0	0	304
5:30 PM	0	0	13	0	0	0	0	0	0	140	0	0	1	105	0	1	260
5:45 PM	1	0	14	0	0	0	0	0	0	123	2	0	5	125	0	0	270
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	2	0	102	0	0	0	0	0	0	1102	2	0	27	890	0	1	2126
APPROACH %'s :	1.92%	0.00%	98.08%	0.00%					0.00%	99.82%	0.18%	0.00%	2.94%	96.95%	0.00%	0.11%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	1	0	54	0	0	0	0	0	0	575	0	0	13	456	0	0	1099
PEAK HR FACTOR :	0.250	0.000	0.675	0.000	0.000	0.000	0.000	0.000	0.000	0.971	0.000	0.000	0.650	0.832	0.000	0.000	0.904
	0.688								0.971				0.856				

Prepared by National Data & Surveying Services

Garfield Ave & Main St

Peak Hour Turning Movement Count

ID: 17-05668-009
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Garfield Ave — SOUTHBOUND

AM	32	653	62	0	1015	AM
NOON	0	0	0	0	0	NOON
PM	28	628	62	0	812	PM

Main St — EASTBOUND

AM	NOON	PM	
241	0	90	
0	0	0	0
25	0	18	0
77	0	36	1
24	0	12	0
AM	NOON	PM	

CONTROL

Signalized

TEV	2231 AM	0 NOON	1791 PM
PHF	0.90		0.96

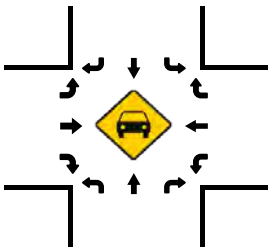
Main St — WESTBOUND

PM	NOON	AM	
70	0	55	0
38	0	159	1
66	0	84	0
0	0	0	0
183	0	214	
PM	NOON	AM	

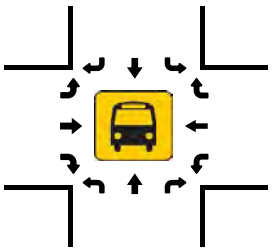
Garfield Ave — NORTHBOUND

PM	706	0	24	724	85	PM
NOON	0	0	0	0	0	NOON
AM	761	0	50	935	75	AM

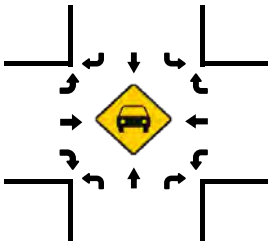
Total Vehicles (AM)



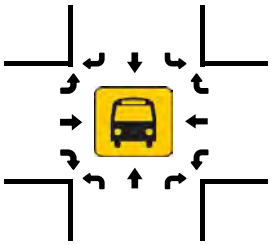
Total Vehicles (AM)



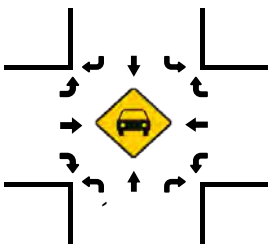
Total Vehicles (NOON)



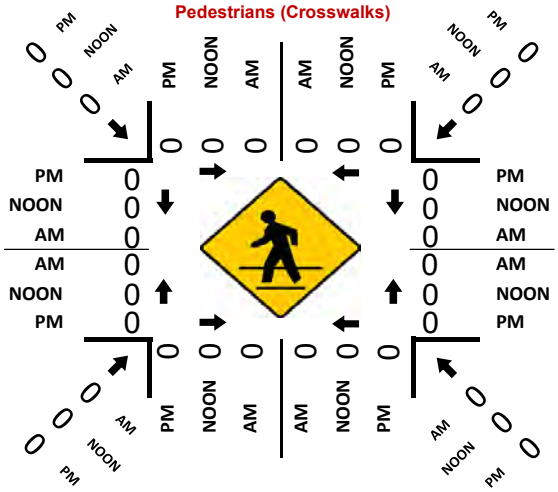
Total Vehicles (NOON)



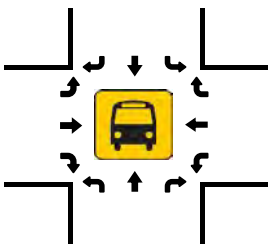
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Garfield Ave & Main St
City: South Gate
Control: Signalized

Project ID: 17-05668-009
Date: 10/11/2017

Total

NS/EW Streets:	Garfield Ave				Garfield Ave				Main St				Main St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	204	10	0	9	105	3	0	3	12	13	0	15	8	12	0	397
7:15 AM	3	233	17	0	9	150	0	0	3	10	3	0	26	17	12	0	483
7:30 AM	10	237	10	0	10	179	9	0	5	24	7	0	25	27	12	0	555
7:45 AM	13	223	18	0	12	176	9	0	5	18	3	0	20	44	10	0	551
8:00 AM	19	233	32	0	25	157	10	0	9	19	10	0	20	69	17	0	620
8:15 AM	8	242	15	0	15	141	4	0	6	16	4	0	19	19	16	0	505
8:30 AM	6	201	15	0	13	91	3	0	3	2	1	0	18	6	7	0	366
8:45 AM	4	177	7	0	9	90	5	0	3	5	5	0	12	8	8	0	333
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	66	1750	124	0	102	1089	43	0	37	106	46	0	155	198	94	0	3810
APPROACH %'s :	3.40%	90.21%	6.39%	0.00%	8.27%	88.25%	3.48%	0.00%	19.58%	56.08%	24.34%	0.00%	34.68%	44.30%	21.03%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	50	935	75	0	62	653	32	0	25	77	24	0	84	159	55	0	2231
PEAK HR FACTOR :	0.658	0.966	0.586	0.000	0.620	0.912	0.800	0.000	0.694	0.802	0.600	0.000	0.840	0.576	0.809	0.000	0.900
	0.933				0.943				0.829				0.703				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	7	148	19	0	17	174	3	0	4	6	1	0	13	10	19	0	421
4:15 PM	5	176	17	0	13	126	9	0	6	6	3	0	21	9	13	0	404
4:30 PM	6	197	18	0	14	149	10	0	4	13	3	0	17	8	29	0	468
4:45 PM	5	161	21	0	13	146	7	0	8	8	3	0	18	11	17	0	418
5:00 PM	6	179	15	0	15	182	5	0	4	7	2	0	21	10	11	0	457
5:15 PM	7	187	31	0	20	151	6	0	2	8	4	0	10	9	13	0	448
5:30 PM	9	170	11	0	19	142	9	0	5	11	3	0	11	11	12	0	413
5:45 PM	10	172	26	0	12	159	6	0	7	19	7	0	15	24	16	0	473
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	55	1390	158	0	123	1229	55	0	40	78	26	0	126	92	130	0	3502
APPROACH %'s :	3.43%	86.71%	9.86%	0.00%	8.74%	87.35%	3.91%	0.00%	27.78%	54.17%	18.06%	0.00%	36.21%	26.44%	37.36%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	24	724	85	0	62	628	28	0	18	36	12	0	66	38	70	0	1791
PEAK HR FACTOR :	0.857	0.919	0.685	0.000	0.775	0.863	0.700	0.000	0.563	0.692	0.750	0.000	0.786	0.864	0.603	0.000	0.957
	0.926				0.889				0.825				0.806				

Prepared by National Data & Surveying Services

Garfield Ave & N. Somerset Ranch Rd

Peak Hour Turning Movement Count

ID: 17-05668-010
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Garfield Ave — SOUTHBOUND

AM	290	832	0	0	1149	AM
NOON	0	0	0	0	0	NOON
PM	243	506	0	0	1035	PM
	1	2	0	0		

N. Somerset Ranch Rd — EASTBOUND

AM	NOON	PM	
1181	0	1127	⇦
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
AM	NOON	PM	

N. Somerset Ranch Rd — WESTBOUND

PM	NOON	AM	
135	0	107	0.5
593	0	734	1.5
221	0	355	1
0	0	0	0
0	0	0	⇨
PM	NOON	AM	

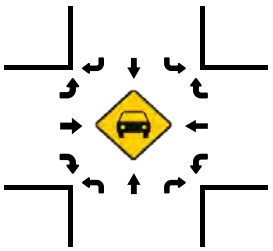
CONTROL: Signalized

TEV	3517	0	2889
	AM	NOON	PM
PHF	0.96		0.97

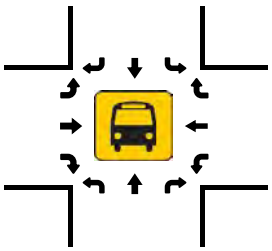
Garfield Ave — NORTHBOUND

PM	727	0	291	900	0	PM
NOON	0	0	0	0	0	NOON
AM	1187	0	157	1042	0	AM
		0	2	2	0	

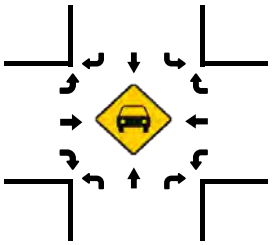
Total Vehicles (AM)



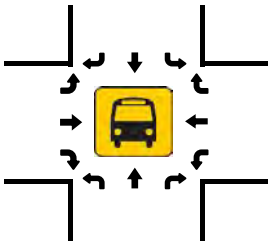
Total Vehicles (AM)



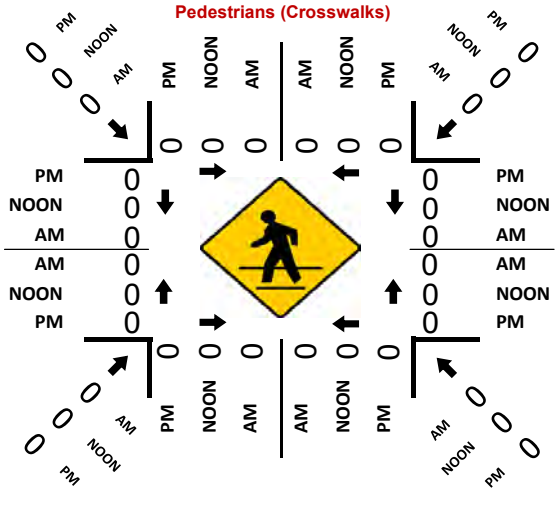
Total Vehicles (NOON)



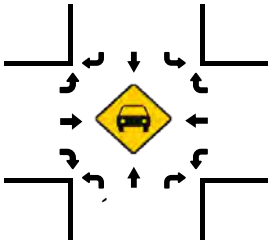
Total Vehicles (NOON)



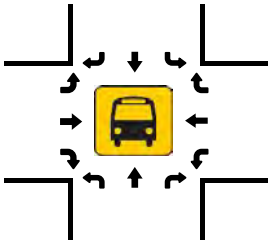
Pedestrians (Crosswalks)



Total Vehicles (PM)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Garfield Ave & N. Somerset Ranch Rd
City: South Gate
Control: Signalized

Project ID: 17-05668-010
Date: 10/11/2017

Total

NS/EW Streets:	Garfield Ave				Garfield Ave				N. Somerset Ranch Rd				N. Somerset Ranch Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	0	2	1	0	0	0	0	0	1	1.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	38	224	0	0	0	108	76	0	0	0	0	0	53	208	18	0	725
7:15 AM	41	246	0	0	0	175	75	0	0	0	0	0	72	194	20	0	823
7:30 AM	44	279	0	0	0	211	78	0	0	0	0	0	99	176	25	0	912
7:45 AM	39	254	0	0	0	229	68	0	0	0	0	0	109	156	33	0	888
8:00 AM	33	263	0	0	0	217	69	0	0	0	0	0	75	208	29	0	894
8:15 AM	39	228	0	0	0	185	75	0	0	0	0	0	59	169	29	0	784
8:30 AM	43	226	0	0	0	120	40	0	0	0	0	0	52	143	20	0	644
8:45 AM	32	190	0	0	0	105	42	0	0	0	0	0	52	127	26	0	574
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	309	1910	0	0	0	1350	523	0	0	0	0	0	571	1381	200	0	6244
APPROACH %'s :	13.93%	86.07%	0.00%	0.00%	0.00%	72.08%	27.92%	0.00%					26.53%	64.17%	9.29%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	157	1042	0	0	0	832	290	0	0	0	0	0	355	734	107	0	3517
PEAK HR FACTOR :	0.892	0.934	0.000	0.000	0.000	0.908	0.929	0.000	0.000	0.000	0.000	0.000	0.814	0.882	0.811	0.000	0.964
	0.928				0.944								0.958				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	0	2	1	0	0	0	0	0	1	1.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	75	213	0	0	0	153	73	0	0	0	0	0	57	134	28	0	733
4:15 PM	75	229	0	0	0	115	60	0	0	0	0	0	53	108	24	0	664
4:30 PM	66	233	0	0	0	115	66	0	0	0	0	0	60	145	30	0	715
4:45 PM	78	207	0	0	0	113	63	0	0	0	0	0	56	143	45	0	705
5:00 PM	83	220	0	0	0	146	61	0	0	0	0	0	58	153	27	0	748
5:15 PM	64	240	0	0	0	132	53	0	0	0	0	0	47	152	33	0	721
5:30 PM	56	204	0	0	0	118	58	0	0	0	0	0	62	129	27	0	654
5:45 PM	51	235	0	0	0	144	60	0	0	0	0	0	54	134	30	0	708
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	548	1781	0	0	0	1036	494	0	0	0	0	0	447	1098	244	0	5648
APPROACH %'s :	23.53%	76.47%	0.00%	0.00%	0.00%	67.71%	32.29%	0.00%					24.99%	61.38%	13.64%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	291	900	0	0	0	506	243	0	0	0	0	0	221	593	135	0	2889
PEAK HR FACTOR :	0.877	0.938	0.000	0.000	0.000	0.866	0.920	0.000	0.000	0.000	0.000	0.000	0.921	0.969	0.750	0.000	0.966
	0.979				0.905								0.972				

Prepared by National Data & Surveying Services

Garfield Ave & S. Somerset Ranch Rd

Peak Hour Turning Movement Count

ID: 17-05668-011
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Garfield Ave — SOUTHBOUND

AM	0	992	175	0	1201	AM
NOON	0	0	0	0	0	NOON
PM	0	651	81	0	1206	PM

S. Somerset Ranch Rd — EASTBOUND

AM	NOON	PM		
0	0	0		
0	0	0	0	
356	0	217	0.5	
699	0	777	1.5	
567	0	512	1	
AM	NOON	PM		

S. Somerset Ranch Rd — WESTBOUND

PM	NOON	AM		
0	0	0		
0	0	0	0	
0	0	0	0	
0	0	0	0	
1325	0	1196		
PM	NOON	AM		

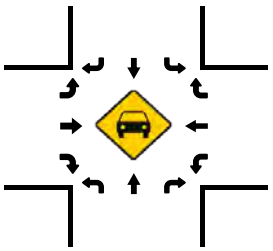
Garfield Ave — NORTHBOUND

PM	1163	0	0	989	467	PM
NOON	0	0	0	0	0	NOON
AM	1559	0	0	845	322	AM

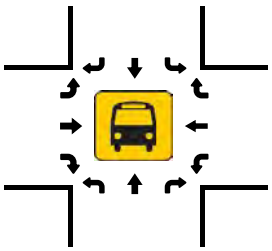
0	2	2	0	
0	0	2	1	

CONTROL			
Signalized			
TEV	3956	0	3694
	AM	NOON	PM
PHF	0.95		0.97

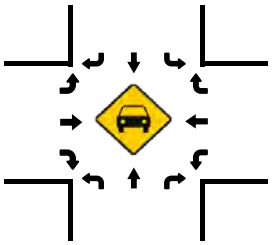
Total Vehicles (AM)



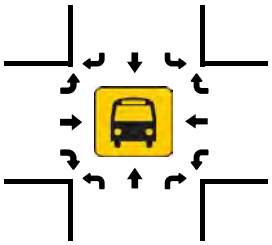
Total Vehicles (AM)



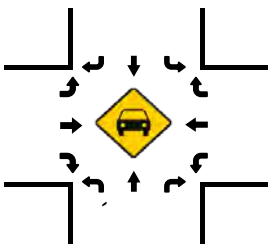
Total Vehicles (NOON)



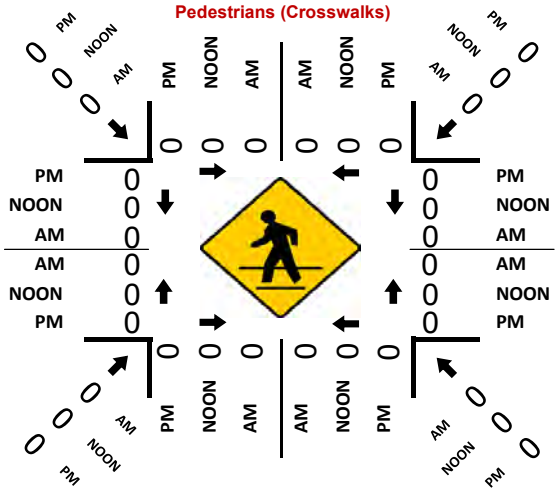
Total Vehicles (NOON)



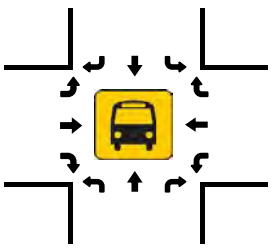
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Garfield Ave & S. Somerset Ranch Rd
City: South Gate
Control: Signalized

Project ID: 17-05668-011
Date: 10/11/2017

Total

NS/EW Streets:	Garfield Ave				Garfield Ave				S. Somerset Ranch Rd				S. Somerset Ranch Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	1	0	2	2	0	0	0.5	1.5	1	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	168	72	0	32	133	0	0	99	174	170	0	0	0	0	0	848
7:15 AM	0	197	81	0	46	191	0	0	91	183	151	0	0	0	0	0	940
7:30 AM	0	229	86	0	48	270	0	0	88	178	142	0	0	0	0	0	1041
7:45 AM	0	203	103	0	42	286	0	0	98	160	138	0	0	0	0	0	1030
8:00 AM	0	216	52	0	39	245	0	0	79	178	136	0	0	0	0	0	945
8:15 AM	0	173	66	0	38	216	0	0	93	127	122	0	0	0	0	0	835
8:30 AM	0	163	45	0	18	156	0	0	106	116	81	0	0	0	0	0	685
8:45 AM	0	141	52	0	26	134	0	0	93	132	106	0	0	0	0	0	684
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1490	557	0	289	1631	0	0	747	1248	1046	0	0	0	0	0	7008
APPROACH %'s :	0.00%	72.79%	27.21%	0.00%	15.05%	84.95%	0.00%	0.00%	24.56%	41.04%	34.40%	0.00%					
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	845	322	0	175	992	0	0	356	699	567	0	0	0	0	0	3956
PEAK HR FACTOR :	0.000	0.922	0.782	0.000	0.911	0.867	0.000	0.000	0.908	0.955	0.939	0.000	0.000	0.000	0.000	0.000	0.950
		0.926				0.889				0.954							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	1	0	2	2	0	0	0.5	1.5	1	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	215	62	0	16	195	0	0	68	195	136	0	0	0	0	0	887
4:15 PM	0	248	78	0	24	144	0	0	57	199	141	0	0	0	0	0	891
4:30 PM	0	239	130	0	21	157	0	0	60	210	138	0	0	0	0	0	955
4:45 PM	0	239	109	0	13	152	0	0	54	197	123	0	0	0	0	0	887
5:00 PM	0	254	115	0	22	185	0	0	55	182	115	0	0	0	0	0	928
5:15 PM	0	257	113	0	25	157	0	0	48	188	136	0	0	0	0	0	924
5:30 PM	0	217	91	0	16	168	0	0	48	210	148	0	0	0	0	0	898
5:45 PM	0	216	100	0	26	168	0	0	63	200	127	0	0	0	0	0	900
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1885	798	0	163	1326	0	0	453	1581	1064	0	0	0	0	0	7270
APPROACH %'s :	0.00%	70.26%	29.74%	0.00%	10.95%	89.05%	0.00%	0.00%	14.62%	51.03%	34.34%	0.00%					
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	0	989	467	0	81	651	0	0	217	777	512	0	0	0	0	0	3694
PEAK HR FACTOR :	0.000	0.962	0.898	0.000	0.810	0.880	0.000	0.000	0.904	0.925	0.928	0.000	0.000	0.000	0.000	0.000	0.967
		0.984				0.884				0.923							

Prepared by National Data & Surveying Services

Old River School Rd & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-012
City: Downey

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	
AM	07:00 AM - 08:00 AM
NOON	NONE
PM	04:30 PM - 05:30 PM

COUNT PERIODS	
AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

Old River School Rd — SOUTHBOUND

AM	458	49	317	0	711	AM
NOON	0	0	0	0	0	NOON
PM	329	34	288	0	506	PM
	1	1	1	0		

Imperial Hwy — EASTBOUND

AM	NOON	PM	
1667	0	1530	
2	0	8	0
267	0	250	1
1486	0	1421	3
167	0	43	1
AM	NOON	PM	

CONTROL

Signalized

	AM	NOON	PM
TEV	4424	0	3858
PHF	0.95		0.97

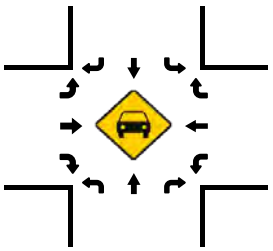
Imperial Hwy — WESTBOUND

PM	NOON	AM	
210	0	353	0
1110	0	1195	3
3	0	9	1
11	0	5	0
1742	0	1821	
PM	NOON	AM	

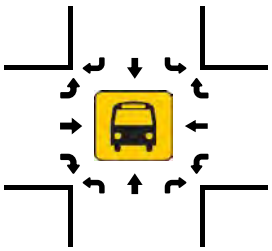
Old River School Rd — NORTHBOUND

PM	80	0	83	46	22	PM
NOON	0	0	0	0	0	NOON
AM	225	0	12	91	13	AM
		0	1.5	1	0.5	

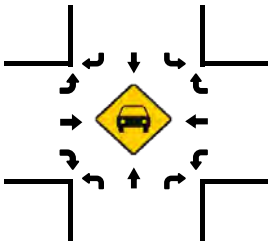
Total Vehicles (AM)



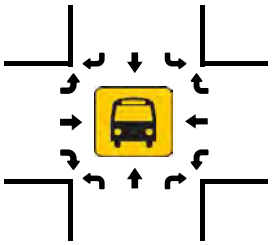
Total Vehicles (AM)



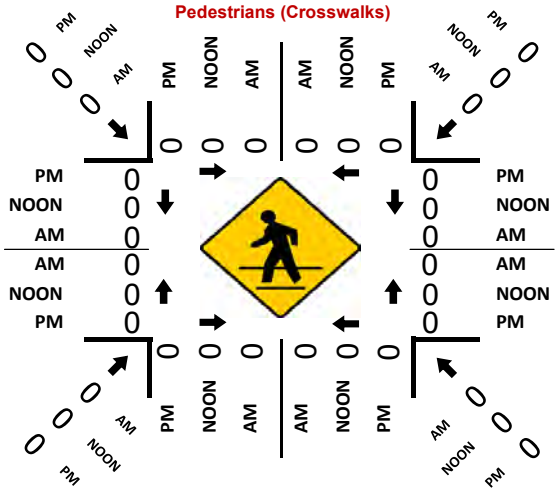
Total Vehicles (NOON)



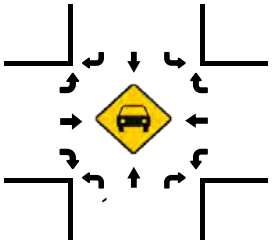
Total Vehicles (NOON)



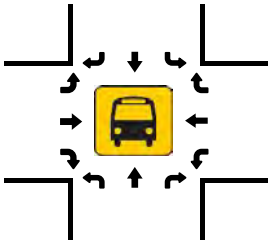
Pedestrians (Crosswalks)



Total Vehicles (PM)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Old River School Rd & Imperial Hwy
City: Downey
Control: Signalized

Project ID: 17-05668-012
Date: 10/11/2017

Total

NS/EW Streets:	Old River School Rd				Old River School Rd				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	1	0.5	0	1	1	1	0	1	3	1	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	20	3	0	58	7	89	0	76	331	49	1	2	304	76	1	1020
7:15 AM	3	22	1	0	68	10	117	0	63	369	29	0	2	282	105	2	1073
7:30 AM	3	33	4	0	107	12	138	0	61	373	52	1	3	291	86	1	1165
7:45 AM	3	16	5	0	84	20	114	0	67	413	37	0	2	318	86	1	1166
8:00 AM	2	6	0	0	73	2	99	0	73	334	25	1	6	246	82	5	954
8:15 AM	2	3	5	0	71	12	90	0	40	324	20	2	9	271	82	5	936
8:30 AM	6	4	5	0	43	13	62	0	59	305	22	1	5	228	55	3	811
8:45 AM	12	3	4	0	40	5	57	0	68	329	18	1	2	204	52	8	803
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	34	107	27	0	544	81	766	0	507	2778	252	7	31	2144	624	26	7928
APPROACH %'s :	20.24%	63.69%	16.07%	0.00%	39.11%	5.82%	55.07%	0.00%	14.31%	78.39%	7.11%	0.20%	1.10%	75.89%	22.09%	0.92%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	12	91	13	0	317	49	458	0	267	1486	167	2	9	1195	353	5	4424
PEAK HR FACTOR :	1.000	0.689	0.650	0.000	0.741	0.613	0.830	0.000	0.878	0.900	0.803	0.500	0.750	0.939	0.840	0.625	0.949
	0.725				0.802				0.929				0.959				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	1	0.5	0	1	1	1	0	1	3	1	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	8	8	4	0	65	8	78	0	57	298	9	2	1	246	54	3	841
4:15 PM	6	5	2	0	57	6	75	0	60	378	12	2	1	290	47	4	945
4:30 PM	23	15	11	0	77	14	84	0	66	359	16	2	1	277	50	2	997
4:45 PM	11	9	5	0	75	10	89	0	61	330	11	1	1	273	51	3	930
5:00 PM	40	18	5	0	64	5	71	0	62	365	6	2	0	271	52	3	964
5:15 PM	9	4	1	0	72	5	85	0	61	367	10	3	1	289	57	3	967
5:30 PM	16	15	2	0	49	5	67	0	72	401	5	1	1	269	65	1	969
5:45 PM	7	7	1	0	77	3	73	0	60	339	4	1	0	255	47	2	876
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	120	81	31	0	536	56	622	0	499	2837	73	14	6	2170	423	21	7489
APPROACH %'s :	51.72%	34.91%	13.36%	0.00%	44.15%	4.61%	51.24%	0.00%	14.58%	82.88%	2.13%	0.41%	0.23%	82.82%	16.15%	0.80%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	83	46	22	0	288	34	329	0	250	1421	43	8	3	1110	210	11	3858
PEAK HR FACTOR :	0.519	0.639	0.500	0.000	0.935	0.607	0.924	0.000	0.947	0.968	0.672	0.667	0.750	0.960	0.921	0.917	0.967
	0.599				0.930				0.972				0.953				

Prepared by National Data & Surveying Services

Erickson Ave & W. Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-013
City: Downey

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
04:00 PM - 05:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Erickson Ave

	Left	Thru	Right	U-Turn	
AM	26	25	0	0	81 AM
NOON	0	0	0	0	0 NOON
PM	31	41	0	0	17 PM

EASTBOUND — W. Imperial Hwy

	Left	Thru	Right	U-Turn	
AM	75	0	122	0	AM
NOON	0	0	0	0	NOON
PM	0	0	0	0	PM

WESTBOUND — W. Imperial Hwy

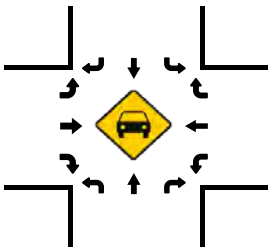
	Left	Thru	Right	U-Turn	
PM	6	0	41	0.5	PM
NOON	8	0	18	0.5	NOON
AM	71	0	229	1	AM
	0	0	0	0	

NORTHBOUND — Erickson Ave

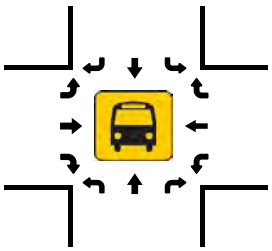
	Left	Thru	Right	U-Turn	
PM	115	3	83	11	0 PM
NOON	0	0	0	0	0 NOON
AM	254	0	31	40	0 AM

CONTROL			
3-Way Stop(NB/SB/WB)			
TEV	410	0	254
	AM	NOON	PM
PHF	0.83		0.82

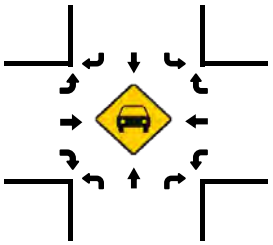
Total Vehicles (AM)



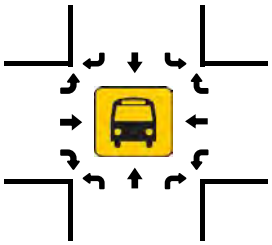
Total Vehicles (AM)



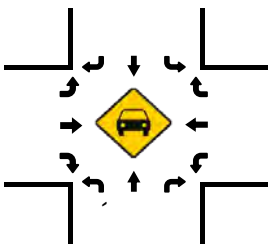
Total Vehicles (NOON)



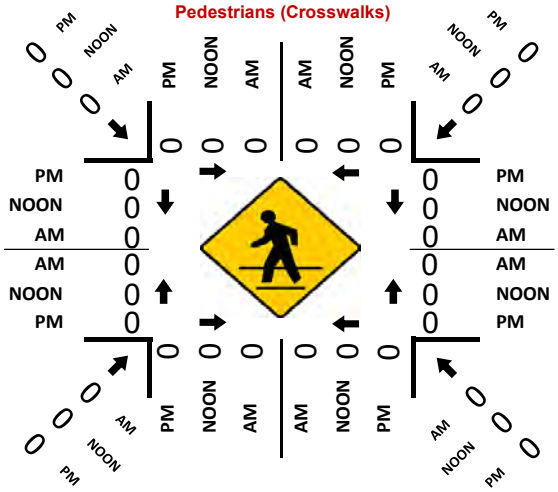
Total Vehicles (NOON)



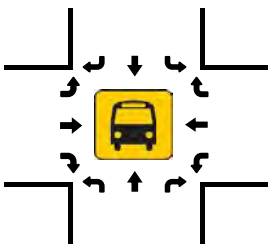
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Erickson Ave & W. Imperial Hwy
City: Downey
Control: 3-Way Stop(NB/SB/WB)

Project ID: 17-05668-013
Date: 10/11/2017

Total

NS/EW Streets:	Erickson Ave				Erickson Ave				W. Imperial Hwy				W. Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	1.5	0	0	0	2	0	0	0	0	0	0	1	0.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	9	13	0	0	0	1	5	0	0	0	0	0	47	4	10	0	89
7:15 AM	3	8	0	0	0	4	5	0	0	0	0	0	38	4	7	0	69
7:30 AM	2	10	0	0	0	11	10	0	0	0	0	0	52	5	7	0	97
7:45 AM	11	15	0	0	0	10	7	0	0	0	0	0	64	4	12	0	123
8:00 AM	8	11	0	0	0	3	7	0	0	0	0	0	52	3	13	0	97
8:15 AM	10	4	0	0	0	1	2	0	0	0	0	0	61	6	9	0	93
8:30 AM	10	9	0	0	0	1	3	0	0	0	0	0	38	2	8	0	71
8:45 AM	14	11	0	0	0	3	4	0	0	0	0	0	38	1	6	0	77
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	67	81	0	0	0	34	43	0	0	0	0	0	390	29	72	0	716
APPROACH %'s :	45.27%	54.73%	0.00%	0.00%	0.00%	44.16%	55.84%	0.00%					79.43%	5.91%	14.66%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	31	40	0	0	0	25	26	0	0	0	0	0	229	18	41	0	410
PEAK HR FACTOR :	0.705	0.667	0.000	0.000	0.000	0.568	0.650	0.000	0.000	0.000	0.000	0.000	0.895	0.750	0.788	0.000	0.833
	0.683				0.607								0.900				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	1.5	0	0	0	2	0	0	0	0	0	0	1	0.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	18	6	0	1	0	9	6	0	0	0	0	0	20	3	4	0	67
4:15 PM	17	1	0	0	0	8	6	0	0	0	0	0	14	2	0	0	48
4:30 PM	22	4	0	0	0	16	12	0	0	0	0	0	19	2	2	0	77
4:45 PM	26	0	0	2	0	8	7	0	0	0	0	0	18	1	0	0	62
5:00 PM	14	5	0	1	0	14	7	0	0	0	0	0	16	3	1	0	61
5:15 PM	12	5	0	0	0	5	4	0	0	0	0	0	10	2	1	0	39
5:30 PM	10	3	0	0	0	6	2	0	0	0	0	0	12	2	1	0	36
5:45 PM	16	3	0	0	0	6	4	0	0	0	0	0	14	1	2	0	46
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	135	27	0	4	0	72	48	0	0	0	0	0	123	16	11	0	436
APPROACH %'s :	81.33%	16.27%	0.00%	2.41%	0.00%	60.00%	40.00%	0.00%					82.00%	10.67%	7.33%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	83	11	0	3	0	41	31	0	0	0	0	0	71	8	6	0	254
PEAK HR FACTOR :	0.798	0.458	0.000	0.375	0.000	0.641	0.646	0.000	0.000	0.000	0.000	0.000	0.888	0.667	0.375	0.000	0.825
	0.866				0.643								0.787				

Prepared by National Data & Surveying Services

Erickson Ave & E. Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-014
City: Downey

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
04:15 PM - 05:15 PM	04:00 PM - 06:00 PM

SOUTHBOUND (Erickson Ave)

AM	0	206	47	0	71	AM
NOON	0	0	0	0	0	NOON
PM	0	56	59	0	93	PM

EASTBOUND (E. Imperial Hwy)

AM	NOON	PM	
0	0	0	
0	0	0	0
29	0	6	1
3	0	4	1
114	0	45	0

WESTBOUND (E. Imperial Hwy)

PM	NOON	AM	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
179	0	89	

NORTHBOUND (Erickson Ave)

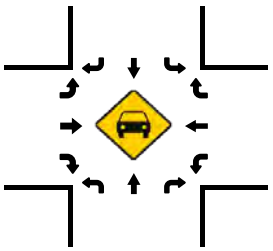
PM	101	0	0	87	116	PM
NOON	0	0	0	0	0	NOON
AM	320	0	0	42	39	AM

0	2	1	0
0	0	2	0

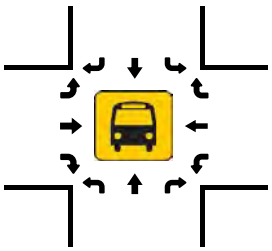
CONTROL: 3-Way Stop(NB/SB/EB)

TEV	480 AM	0 NOON	373 PM
PHF	0.86		0.85

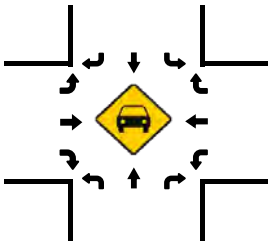
Total Vehicles (AM)



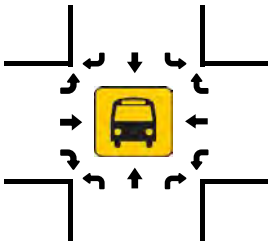
Total Vehicles (AM)



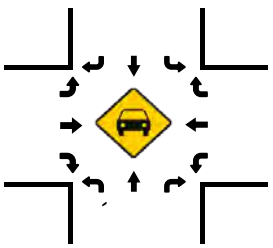
Total Vehicles (NOON)



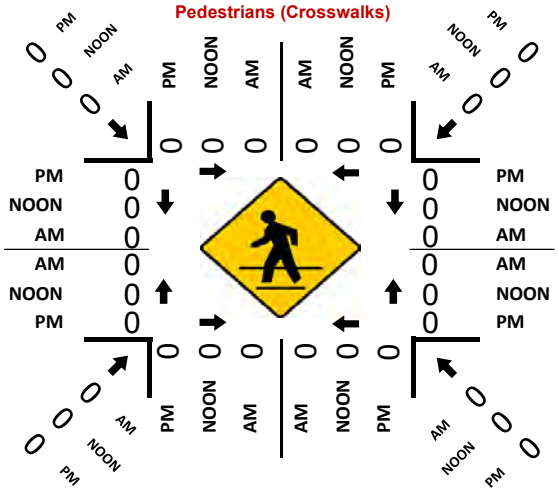
Total Vehicles (NOON)



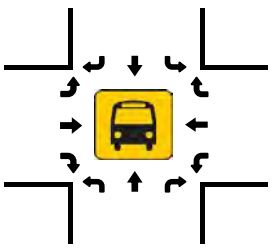
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Erickson Ave & E. Imperial Hwy
City: Downey
Control: 3-Way Stop(NB/SB/EB)

Project ID: 17-05668-014
Date: 10/11/2017

Total

NS/EW Streets:	Erickson Ave				Erickson Ave				E. Imperial Hwy				E. Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	1	2	0	0	1	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	11	4	0	3	45	0	0	11	1	10	0	0	0	0	0	85
7:15 AM	0	4	4	0	6	35	0	0	7	0	15	0	0	0	0	0	71
7:30 AM	0	6	8	0	17	47	0	0	6	1	20	0	0	0	0	0	105
7:45 AM	0	15	16	0	14	60	0	0	11	0	23	0	0	0	0	0	139
8:00 AM	0	11	7	0	8	47	0	0	8	0	26	0	0	0	0	0	107
8:15 AM	0	10	8	0	8	52	0	0	4	2	45	0	0	0	0	0	129
8:30 AM	0	14	9	0	3	38	0	0	6	0	28	0	0	0	0	0	98
8:45 AM	0	16	12	0	8	34	0	0	9	2	35	0	0	0	0	0	116
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	87	68	0	67	358	0	0	62	6	202	0	0	0	0	0	850
APPROACH %'s :	0.00%	56.13%	43.87%	0.00%	15.76%	84.24%	0.00%	0.00%	22.96%	2.22%	74.81%	0.00%					
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	42	39	0	47	206	0	0	29	3	114	0	0	0	0	0	480
PEAK HR FACTOR :	0.000	0.700	0.609	0.000	0.691	0.858	0.000	0.000	0.659	0.375	0.633	0.000	0.000	0.000	0.000	0.000	0.863
		0.653				0.855				0.716							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	1	2	0	0	1	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	20	17	0	15	15	0	0	5	2	10	0	0	0	0	0	84
4:15 PM	0	17	27	0	10	13	0	0	1	0	23	0	0	0	0	0	91
4:30 PM	0	25	36	0	19	15	0	0	2	2	11	0	0	0	0	0	110
4:45 PM	0	27	20	0	15	13	0	0	0	0	4	0	0	0	0	0	79
5:00 PM	0	18	33	0	15	15	0	0	3	2	7	0	0	0	0	0	93
5:15 PM	0	15	16	0	13	5	0	0	3	0	8	0	0	0	0	0	60
5:30 PM	0	12	20	0	7	10	0	0	1	0	4	0	0	0	0	0	54
5:45 PM	0	18	9	0	9	12	0	0	0	2	2	0	0	0	0	0	52
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	152	178	0	103	98	0	0	15	8	69	0	0	0	0	0	623
APPROACH %'s :	0.00%	46.06%	53.94%	0.00%	51.24%	48.76%	0.00%	0.00%	16.30%	8.70%	75.00%	0.00%					
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	87	116	0	59	56	0	0	6	4	45	0	0	0	0	0	373
PEAK HR FACTOR :	0.000	0.806	0.806	0.000	0.776	0.933	0.000	0.000	0.500	0.500	0.489	0.000	0.000	0.000	0.000	0.000	0.848
		0.832				0.846				0.573							

Prepared by National Data & Surveying Services

Industrial Ave & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-015
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS

AM: 07:15 AM - 08:15 AM
NOON: NONE
PM: 04:30 PM - 05:30 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

Industrial Ave — SOUTHBOUND

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	0	0	0	0	PM

Gardendale St — EASTBOUND

AM	NOON	PM		
930	0	486	⇦	
0	0	0	↶	0
0	0	0	↱	0
565	0	608	→	1
18	0	29	↴	0
AM	NOON	PM		

CONTROL

1-Way Stop(NB)

TEV	1524 AM	0 NOON	1142 PM
PHF	0.87		0.87

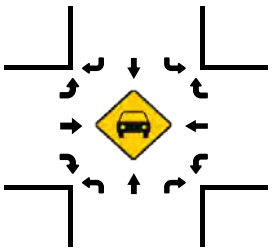
WESTBOUND — Gardendale St

0	↰	0	0	0
1	←	461	0	895
1	↰	10	0	6
0	↩	0	0	0
	⇨	617	0	570
		PM	NOON	AM

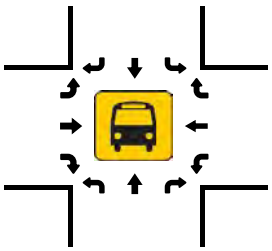
Industrial Ave — NORTHBOUND

PM	39	0	25	0	9	PM
NOON	0	0	0	0	0	NOON
AM	24	0	35	0	5	AM

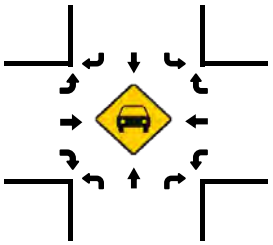
Total Vehicles (AM)



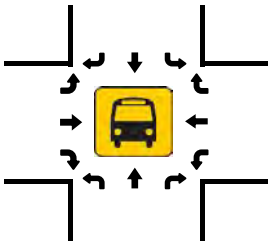
Total Vehicles (AM)



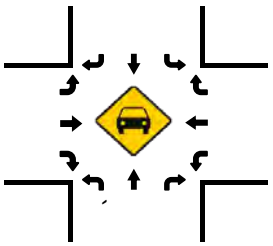
Total Vehicles (NOON)



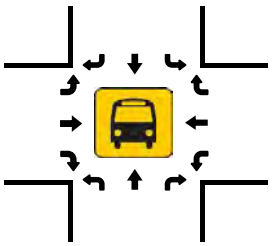
Total Vehicles (NOON)



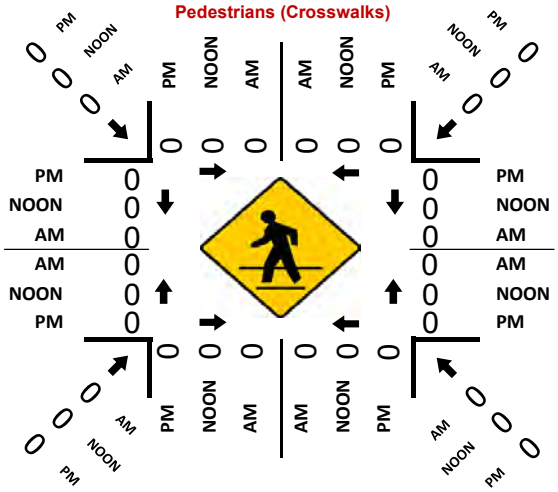
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Industrial Ave & Gardendale St
City: South Gate
Control: 1-Way Stop(NB)

Project ID: 17-05668-015
Date: 10/11/2017

Total

NS/EW Streets:	Industrial Ave				Industrial Ave				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	9	0	1	0	0	0	0	0	0	69	1	0	0	168	0	0	248
7:15 AM	7	0	1	0	0	0	0	0	0	117	3	0	2	198	0	0	328
7:30 AM	12	0	1	0	0	0	0	0	0	158	2	0	2	239	0	0	414
7:45 AM	9	0	2	0	0	0	0	0	0	180	7	0	1	239	0	0	438
8:00 AM	7	0	1	0	0	0	0	0	0	110	6	0	1	219	0	0	344
8:15 AM	6	0	3	0	0	0	0	0	0	101	5	0	1	163	0	0	279
8:30 AM	7	0	2	0	0	0	0	0	0	70	1	0	1	123	0	0	204
8:45 AM	7	0	0	0	0	0	0	0	0	48	2	0	1	117	0	0	175
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	64	0	11	0	0	0	0	0	0	853	27	0	9	1466	0	0	2430
APPROACH %'s :	85.33%	0.00%	14.67%	0.00%					0.00%	96.93%	3.07%	0.00%	0.61%	99.39%	0.00%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	35	0	5	0	0	0	0	0	0	565	18	0	6	895	0	0	1524
PEAK HR FACTOR :	0.729	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.785	0.643	0.000	0.750	0.936	0.000	0.000	0.870
	0.769								0.779				0.935				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	9	0	3	0	0	0	0	0	0	152	2	0	0	98	0	0	264
4:15 PM	4	0	2	0	0	0	0	0	0	135	5	0	2	111	0	0	259
4:30 PM	7	0	3	0	0	0	0	0	0	149	9	0	6	106	0	0	280
4:45 PM	5	0	2	0	0	0	0	0	0	145	11	0	2	112	0	0	277
5:00 PM	3	0	2	0	0	0	0	0	0	142	2	0	1	108	0	0	258
5:15 PM	10	0	2	0	0	0	0	0	0	172	7	0	1	135	0	0	327
5:30 PM	5	0	1	0	0	0	0	0	0	148	7	0	3	104	0	0	268
5:45 PM	5	0	2	0	0	0	0	0	0	133	10	0	4	133	0	0	287
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	48	0	17	0	0	0	0	0	0	1176	53	0	19	907	0	0	2220
APPROACH %'s :	73.85%	0.00%	26.15%	0.00%					0.00%	95.69%	4.31%	0.00%	2.05%	97.95%	0.00%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	25	0	9	0	0	0	0	0	0	608	29	0	10	461	0	0	1142
PEAK HR FACTOR :	0.625	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.884	0.659	0.000	0.417	0.854	0.000	0.000	0.873
	0.708								0.890				0.866				

Prepared by National Data & Surveying Services

Erickson Ave & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-016
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

Erickson Ave — SOUTHBOUND

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	0	0	0	0	PM

Gardendale St — EASTBOUND

AM	NOON	PM	
900	0	490	⇦
0	0	0	↶ 0
0	0	0	↱ 0
572	0	599	→ 1
0	0	0	↷ 0
AM	NOON	PM	

CONTROL

No Control

TEV	1473	0	1090
	AM	NOON	PM
PHF	0.86		0.89

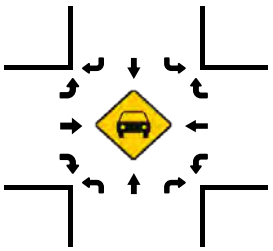
WESTBOUND — Gardendale St

PM	NOON	AM	
0	0	0	↰ 0
490	0	900	← 1
0	0	0	↰ 0
1	0	0	↶ 0
600	0	573	⇨
PM	NOON	AM	

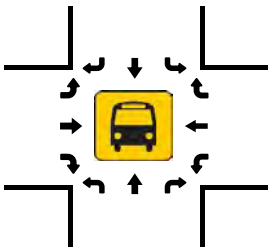
Erickson Ave — NORTHBOUND

PM	0	0	0	0	0	PM
NOON	0	0	0	0	0	NOON
AM	0	0	0	0	1	AM

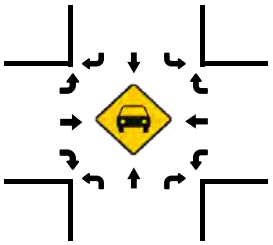
Total Vehicles (AM)



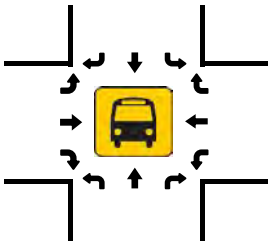
Total Vehicles (AM)



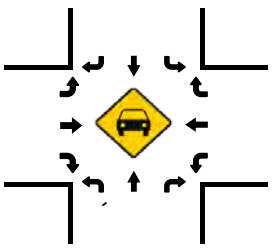
Total Vehicles (NOON)



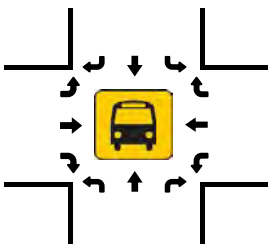
Total Vehicles (NOON)



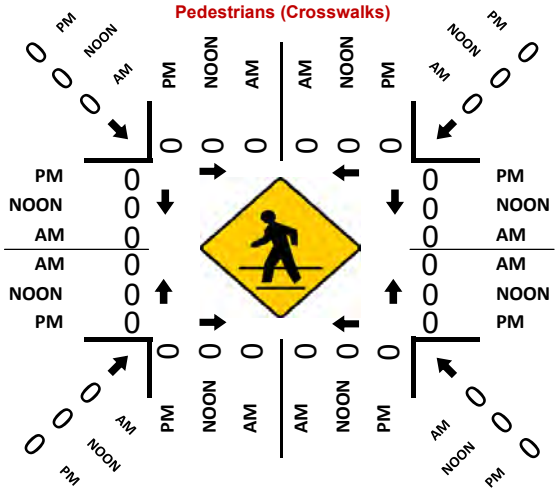
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Erickson Ave & Gardendale St
City: South Gate
Control: No Control

Project ID: 17-05668-016
Date: 10/11/2017

Total

NS/EW Streets:	Erickson Ave				Erickson Ave				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	71	0	0	0	169	0	0	240
7:15 AM	0	0	0	0	0	0	0	0	0	118	0	0	0	204	0	0	322
7:30 AM	0	0	0	0	0	0	0	0	0	156	0	0	0	236	0	0	392
7:45 AM	0	0	0	0	0	0	0	0	0	187	0	0	0	242	0	0	429
8:00 AM	0	0	1	0	0	0	0	0	0	111	0	0	0	218	0	0	330
8:15 AM	0	0	0	0	0	0	0	0	0	107	0	0	0	166	0	1	274
8:30 AM	0	0	0	0	0	0	0	0	0	71	0	1	0	129	0	0	201
8:45 AM	0	0	0	0	0	0	0	0	0	48	0	1	0	113	0	0	162
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	1	0	0	0	0	0	0	869	0	2	0	1477	0	1	2350
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%					0.00%	99.77%	0.00%	0.23%	0.00%	99.93%	0.00%	0.07%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	0	1	0	0	0	0	0	0	572	0	0	0	900	0	0	1473
PEAK HR FACTOR :	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.765	0.000	0.000	0.000	0.930	0.000	0.000	0.858
			0.250							0.765				0.930			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	153	1	0	0	99	0	0	253
4:15 PM	0	0	0	0	0	0	0	0	0	137	0	0	1	116	0	0	254
4:30 PM	0	0	0	0	0	0	0	0	0	153	0	1	0	108	0	0	262
4:45 PM	0	0	0	0	0	0	0	0	0	146	0	0	0	115	0	0	261
5:00 PM	0	0	0	0	0	0	0	0	0	142	0	0	0	115	0	0	257
5:15 PM	0	0	0	0	0	0	0	0	0	173	0	0	0	133	0	0	306
5:30 PM	0	0	0	0	0	0	0	0	0	148	0	0	0	109	0	0	257
5:45 PM	0	0	0	0	0	0	0	0	0	136	0	0	0	133	0	1	270
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	1188	1	1	1	928	0	1	2120
APPROACH %'s :									0.00%	99.83%	0.08%	0.08%	0.11%	99.78%	0.00%	0.11%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	599	0	0	0	490	0	1	1090
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.866	0.000	0.000	0.000	0.921	0.000	0.250	0.891
										0.866				0.916			

Prepared by National Data & Surveying Services

Arizona Ave & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-017
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND (Arizona Ave)

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	0	0	0	0	PM

EASTBOUND (Gardendale St)

AM	NOON	PM	
900	0	494	⇦
0	0	0	0
0	0	0	0
568	0	596	1
8	0	6	0

WESTBOUND (Gardendale St)

PM	NOON	AM	
0	0	0	0
490	0	881	1
16	0	23	1
1	0	2	0
629	0	597	⇨

NORTHBOUND (Arizona Ave)

PM	22	0	4	0	32	PM
NOON	0	0	0	0	0	NOON
AM	31	0	19	0	27	AM

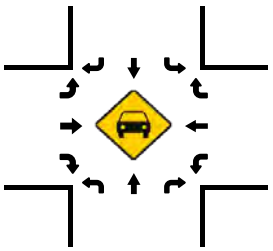
	0	0	1	0

CONTROL

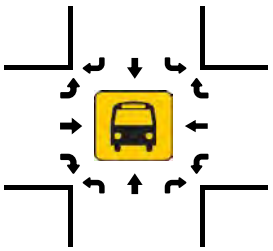
1-Way Stop(NB)

TEV	1528	0	1145
	AM	NOON	PM
PHF	0.86		0.88

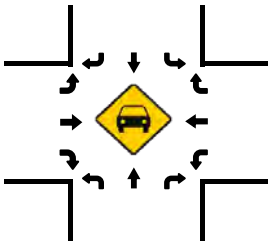
Total Vehicles (AM)



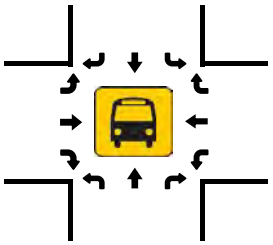
Total Vehicles (AM)



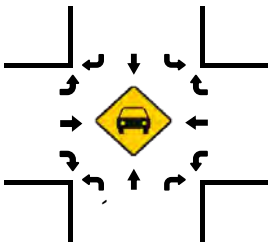
Total Vehicles (NOON)



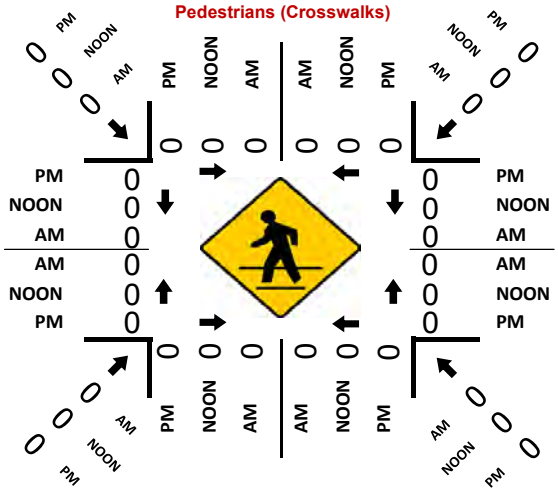
Total Vehicles (NOON)



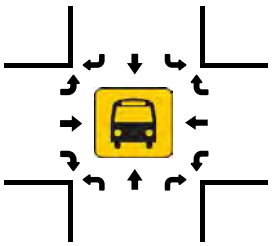
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Arizona Ave & Gardendale St
City: South Gate
Control: 1-Way Stop(NB)

Project ID: 17-05668-017
Date: 10/11/2017

Total

NS/EW Streets:	Arizona Ave				Arizona Ave				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	0	3	0	0	0	0	0	0	76	2	0	3	164	0	0	251
7:15 AM	10	0	2	0	0	0	0	0	0	118	1	0	1	199	0	0	331
7:30 AM	3	0	14	0	0	0	0	0	0	151	3	0	5	232	0	0	408
7:45 AM	3	0	6	0	0	0	0	0	0	189	2	0	11	232	0	1	444
8:00 AM	3	0	5	0	0	0	0	0	0	110	2	0	6	218	0	1	345
8:15 AM	2	0	5	0	0	0	0	0	0	107	0	0	2	160	0	0	276
8:30 AM	2	0	4	0	0	0	0	0	0	68	0	0	2	130	0	0	206
8:45 AM	1	0	3	0	0	0	0	0	0	51	0	0	3	108	0	0	166
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	27	0	42	0	0	0	0	0	0	870	10	0	33	1443	0	2	2427
APPROACH %'s :	39.13%	0.00%	60.87%	0.00%					0.00%	98.86%	1.14%	0.00%	2.23%	97.63%	0.00%	0.14%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	19	0	27	0	0	0	0	0	0	568	8	0	23	881	0	2	1528
PEAK HR FACTOR :	0.475	0.000	0.482	0.000	0.000	0.000	0.000	0.000	0.000	0.751	0.667	0.000	0.523	0.949	0.000	0.500	0.860
	0.676								0.754				0.928				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	5	0	4	0	0	0	0	0	0	150	4	0	5	95	0	0	263
4:15 PM	1	0	6	0	0	0	0	0	0	137	0	0	4	117	0	0	265
4:30 PM	3	0	6	0	0	0	0	0	0	150	3	0	3	108	0	0	273
4:45 PM	1	0	4	0	0	0	0	0	0	145	0	0	3	111	0	1	265
5:00 PM	1	0	7	0	0	0	0	0	0	137	2	0	6	116	0	0	269
5:15 PM	0	0	9	0	0	0	0	0	0	178	1	0	2	135	0	0	325
5:30 PM	0	0	8	0	0	0	0	0	0	148	2	0	6	112	0	0	276
5:45 PM	3	0	8	0	0	0	0	0	0	133	1	0	2	127	0	1	275
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	14	0	52	0	0	0	0	0	0	1178	13	0	31	921	0	2	2211
APPROACH %'s :	21.21%	0.00%	78.79%	0.00%					0.00%	98.91%	1.09%	0.00%	3.25%	96.54%	0.00%	0.21%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	4	0	32	0	0	0	0	0	0	596	6	0	16	490	0	1	1145
PEAK HR FACTOR :	0.333	0.000	0.889	0.000	0.000	0.000	0.000	0.000	0.000	0.837	0.750	0.000	0.667	0.907	0.000	0.250	0.881
	0.818								0.841				0.925				

Prepared by National Data & Surveying Services

Industrial Ave/Arizona Ave & Main St

Peak Hour Turning Movement Count

ID: 17-05668-018
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	
AM	07:15 AM - 08:15 AM
NOON	NONE
PM	04:30 PM - 05:30 PM

COUNT PERIODS	
AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

Industrial Ave/Arizona Ave — SOUTHBOUND

AM	13	14	4	0	33	AM
NOON	0	0	0	0	0	NOON
PM	13	8	9	0	26	PM

EASTBOUND (Main St)

AM	NOON	PM	
287	0	175	
1	0	0	0
16	0	10	0
177	0	165	1
23	0	21	0

WESTBOUND (Main St)

PM	NOON	AM	
7	0	4	0
140	0	243	1
10	0	8	0
1	0	1	0
201	0	211	

CONTROL

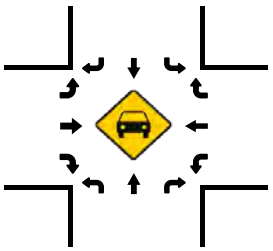
2-Way Stop(NB/SB)

	AM	NOON	PM
TEV	576	0	441
PHF	0.78		0.98

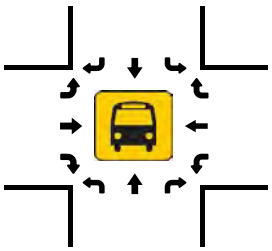
Industrial Ave/Arizona Ave — NORTHBOUND

PM	39	0	22	9	26	PM
NOON	0	0	0	0	0	NOON
AM	45	0	30	13	29	AM

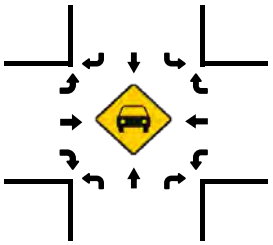
Total Vehicles (AM)



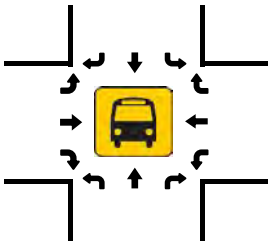
Total Vehicles (AM)



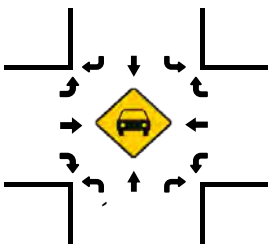
Total Vehicles (NOON)



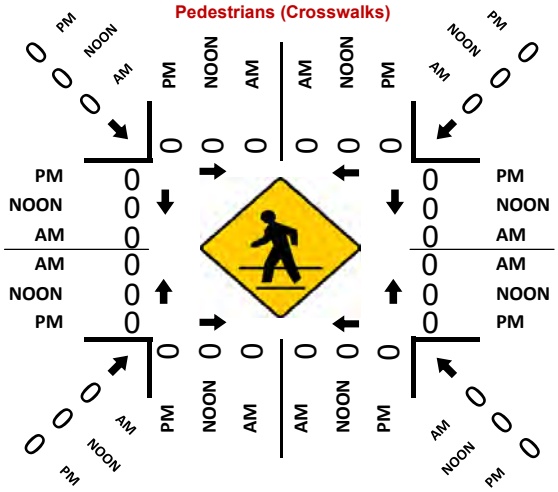
Total Vehicles (NOON)



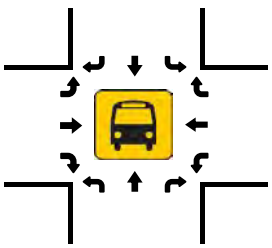
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Industrial Ave/Arizona Ave & Main St
City: South Gate
Control: 2-Way Stop(NB/SB)

Project ID: 17-05668-018
Date: 10/11/2017

Total

NS/EW Streets:	Industrial Ave/Arizona Ave					Industrial Ave/Arizona Ave				Main St					Main St									
AM	NORTHBOUND					SOUTHBOUND				EASTBOUND					WESTBOUND					SOUTHBOUND2				
	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	
	NL	NT	NR	NU	NT2	SL	ST	SR	SU	EL	ET	ER	EU	EL2	WL	WT	WR	WU	WR2	S2L	S2L2	S2T2	S2R2	TOTAL
7:00 AM	2	2	4	0	1	2	0	3	0	2	36	2	0	3	2	27	5	0	0		3	0	3	97
7:15 AM	1	3	5	0	0	0	1	2	0	2	46	6	0	1	2	37	2	1	0		0	1	8	118
7:30 AM	7	5	6	0	3	3	4	3	0	2	54	1	0	4	0	58	1	0	1		2	2	3	159
7:45 AM	11	1	8	0	0	0	5	2	0	4	39	2	0	5	3	68	0	0	0		2	5	18	173
8:00 AM	11	4	10	0	4	1	4	6	0	8	38	14	1	7	3	80	1	0	1		1	2	17	213
8:15 AM	6	3	7	1	1	2	2	2	0	5	32	7	0	7	1	27	2	0	1		1	0	4	111
8:30 AM	3	2	3	0	0	2	0	3	0	3	25	4	0	4	0	20	2	0	1		1	1	2	76
8:45 AM	5	2	2	0	0	1	0	1	0	0	18	5	0	2	1	22	2	0	0		0	0	4	65
	NL	NT	NR	NU	NT2	SL	ST	SR	SU	EL	ET	ER	EU	EL2	WL	WT	WR	WU	WR2	S2L	S2L2	S2T2	S2R2	TOTAL
TOTAL VOLUMES :	46	22	45	1	9	11	16	22	0	26	288	41	1	33	12	339	15	1	4	0	10	11	59	1012
APPROACH %'s :	37.40%	17.89%	36.59%	0.81%	7.32%	22.45%	32.65%	44.90%	0.00%	6.68%	74.04%	10.54%	0.26%	8.48%	3.23%	91.37%	4.04%	0.27%	1.08%	0.00%	12.50%	13.75%	73.75%	
PEAK HR :	07:15 AM - 08:15 AM																							TOTAL
PEAK HR VOL :	30	13	29	0	7	4	14	13	0	16	177	23	1	17	8	243	4	1	2	0	5	10	46	663
PEAK HR FACTOR :	0.682	0.650	0.725	0.000	0.438	0.333	0.700	0.542	0.000	0.500	0.819	0.411	0.250	0.607	0.667	0.759	0.500	0.250	0.500	0.000	0.625	0.500	0.639	0.778
			0.681				0.705					0.860					0.759				0.610			

PM	NORTHBOUND					SOUTHBOUND				EASTBOUND					WESTBOUND					SOUTHBOUND2				
	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	
	NL	NT	NR	NU	NT2	SL	ST	SR	SU	EL	ET	ER	EU	EL2	WL	WT	WR	WU	WR2	S2L	S2L2	S2T2	S2R2	TOTAL
4:00 PM	4	0	5	0	1	0	0	1	0	4	51	7	0	7	2	34	1	0	1		1	2	3	124
4:15 PM	6	0	6	0	3	2	0	3	0	5	29	6	0	7	2	33	3	0	1		1	1	1	109
4:30 PM	8	2	5	0	2	1	2	5	0	3	31	4	0	5	1	41	5	0	0		2	2	3	122
4:45 PM	5	4	7	0	2	5	1	5	0	1	44	1	0	6	1	40	0	0	0		0	1	1	124
5:00 PM	4	1	7	0	1	0	1	3	0	1	44	6	0	7	4	39	2	1	1		0	0	0	122
5:15 PM	5	2	7	0	3	3	4	0	0	5	46	10	0	6	4	20	0	0	0		1	0	3	119
5:30 PM	5	1	1	0	4	2	3	4	0	0	38	5	0	4	2	32	0	0	0		2	1	2	106
5:45 PM	7	0	7	0	3	1	2	2	0	3	47	6	0	5	2	44	1	0	1		0	2	4	137
	NL	NT	NR	NU	NT2	SL	ST	SR	SU	EL	ET	ER	EU	EL2	WL	WT	WR	WU	WR2	S2L	S2L2	S2T2	S2R2	TOTAL
TOTAL VOLUMES :	44	10	45	0	19	14	13	23	0	22	330	45	0	47	18	283	12	1	4	0	7	9	17	963
APPROACH %'s :	37.29%	8.47%	38.14%	0.00%	16.10%	28.00%	26.00%	46.00%	0.00%	4.95%	74.32%	10.14%	0.00%	10.59%	5.66%	88.99%	3.77%	0.31%	1.26%	0.00%	21.21%	27.27%	51.52%	
PEAK HR :	04:30 PM - 05:30 PM																							TOTAL
PEAK HR VOL :	22	9	26	0	8	9	8	13	0	10	165	21	0	24	10	140	7	1	1	0	3	3	7	487
PEAK HR FACTOR :	0.688	0.563	0.929	0.000	0.667	0.450	0.500	0.650	0.000	0.500	0.897	0.525	0.000	0.857	0.625	0.854	0.350	0.250	0.250	0.000	0.375	0.375	0.583	0.982
			0.903				0.682					0.821					0.846				0.464			

Prepared by National Data & Surveying Services

Paramount Blvd & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-019
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Paramount Blvd — SOUTHBOUND

AM	238	898	168	7	1181	AM
NOON	0	0	0	0	0	NOON
PM	189	769	206	5	1188	PM
	1	2	1	0		

Imperial Hwy — EASTBOUND

AM	NOON	PM	
1703	0	1399	
9	0	22	0
275	0	284	2
1216	0	1301	3
88	0	130	0
AM	NOON	PM	

CONTROL

Signalized

TEV	5475 AM	0 NOON	5222 PM
PHF	0.96		0.98

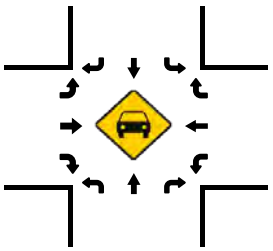
Imperial Hwy — WESTBOUND

PM	NOON	AM	
138	0	100	0
958	0	1179	3
126	0	109	1
20	0	29	0
1607	0	1495	
PM	NOON	AM	

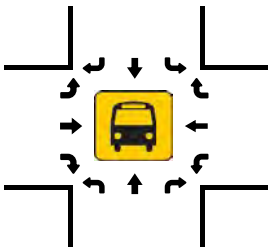
Paramount Blvd — NORTHBOUND

	0	2	2	1	
PM	1028	3	230	761	80	PM
NOON	0	0	0	0	0	NOON
AM	1096	1	277	799	82	AM

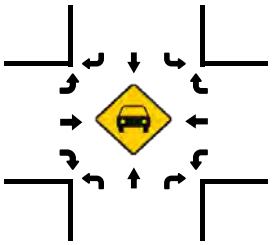
Total Vehicles (AM)



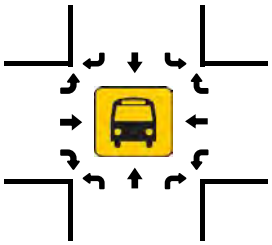
Total Vehicles (AM)



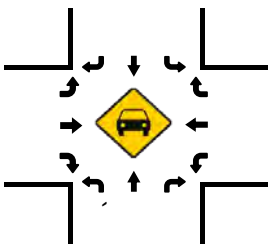
Total Vehicles (NOON)



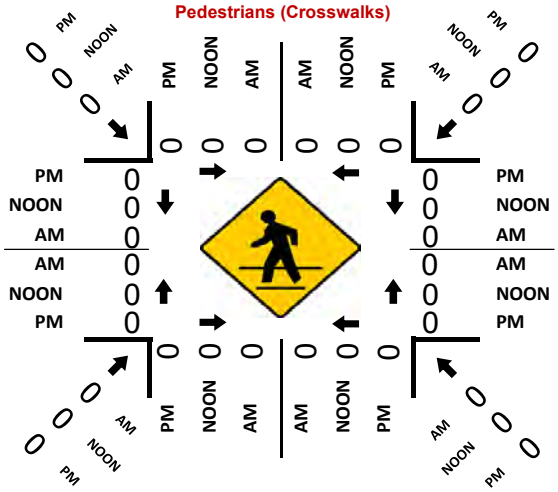
Total Vehicles (NOON)



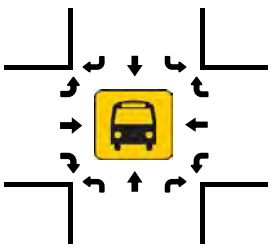
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Paramount Blvd & Imperial Hwy
City: South Gate
Control: Signalized

Project ID: 17-05668-019
Date: 10/11/2017

Total

NS/EW Streets:	Paramount Blvd				Paramount Blvd				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	1	0	1	2	1	0	2	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	53	203	13	0	24	197	57	0	72	216	27	3	30	268	17	5	1185
7:15 AM	80	230	22	0	50	218	78	2	94	267	25	1	20	279	25	5	1396
7:30 AM	58	221	13	0	42	240	58	2	82	316	25	3	28	313	16	7	1424
7:45 AM	67	169	20	1	41	244	44	1	46	340	16	3	28	310	22	8	1360
8:00 AM	72	179	27	0	35	196	58	2	53	293	22	2	33	277	37	9	1295
8:15 AM	68	184	26	0	46	174	51	1	43	303	26	4	27	291	28	6	1278
8:30 AM	53	168	19	0	30	161	53	3	48	227	16	8	34	228	30	7	1085
8:45 AM	50	162	21	0	31	128	50	0	54	215	26	5	27	207	23	0	999
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	501	1516	161	1	299	1558	449	11	492	2177	183	29	227	2173	198	47	10022
APPROACH %'s :	22.99%	69.57%	7.39%	0.05%	12.90%	67.24%	19.38%	0.47%	17.08%	75.56%	6.35%	1.01%	8.58%	82.16%	7.49%	1.78%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	277	799	82	1	168	898	238	7	275	1216	88	9	109	1179	100	29	5475
PEAK HR FACTOR :	0.866	0.868	0.759	0.250	0.840	0.920	0.763	0.875	0.731	0.894	0.880	0.750	0.826	0.942	0.676	0.806	0.961
	0.873				0.942				0.932				0.963				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	1	0	1	2	1	0	2	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	58	198	17	0	44	169	53	3	64	324	28	5	27	218	42	4	1254
4:15 PM	47	197	24	0	40	156	55	3	74	277	32	2	33	217	22	4	1183
4:30 PM	68	192	22	0	43	190	39	3	62	345	35	2	23	214	34	5	1277
4:45 PM	45	189	15	1	62	186	52	2	88	321	27	6	39	231	28	4	1296
5:00 PM	54	193	17	0	46	188	45	0	69	330	44	8	24	269	42	6	1335
5:15 PM	63	187	26	2	55	205	53	0	65	305	24	6	40	244	34	5	1314
5:30 PM	64	217	17	0	39	159	48	2	70	320	22	2	24	239	29	4	1256
5:45 PM	64	206	23	0	41	186	52	1	70	321	31	5	33	222	31	4	1290
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	463	1579	161	3	370	1439	397	14	562	2543	243	36	243	1854	262	36	10205
APPROACH %'s :	20.99%	71.58%	7.30%	0.14%	16.67%	64.82%	17.88%	0.63%	16.61%	75.15%	7.18%	1.06%	10.15%	77.41%	10.94%	1.50%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	230	761	80	3	206	769	189	5	284	1301	130	22	126	958	138	20	5222
PEAK HR FACTOR :	0.846	0.986	0.769	0.375	0.831	0.938	0.892	0.417	0.807	0.943	0.739	0.688	0.788	0.890	0.821	0.833	0.978
	0.952				0.934				0.963				0.911				

Prepared by National Data & Surveying Services

Paramount Blvd & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-020
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

Paramount Blvd — SOUTHBOUND

AM	91	900	114	1	1186	AM
NOON	0	0	0	0	0	NOON
PM	85	946	118	12	1272	PM
	1	2	1	0		

Gardendale St — EASTBOUND

AM	NOON	PM	
890	0	538	
0	0	0	0
80	0	87	1
434	0	459	2
71	0	83	0
AM	NOON	PM	

CONTROL

Signalized

TEV	3836	0	3637
	AM	NOON	PM
PHF	0.96		0.95

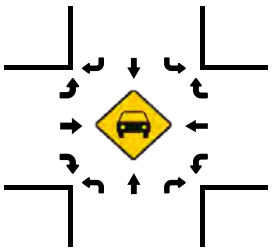
Gardendale St — WESTBOUND

PM	NOON	AM	
127	0	163	1
374	0	638	2
106	0	150	1
0	0	0	0
690	0	639	
PM	NOON	AM	

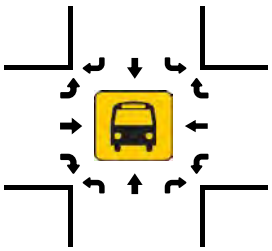
	0	1	2	1		
PM	1137	2	79	1046	113	PM
NOON	0	0	0	0	0	NOON
AM	1121	0	161	942	91	AM

Paramount Blvd — NORTHBOUND

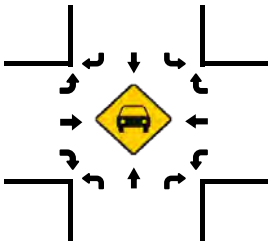
Total Vehicles (AM)



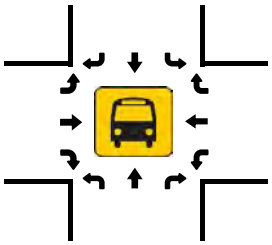
Total Vehicles (AM)



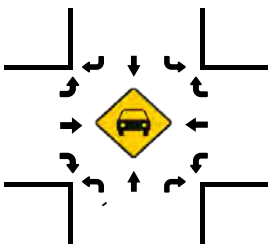
Total Vehicles (NOON)



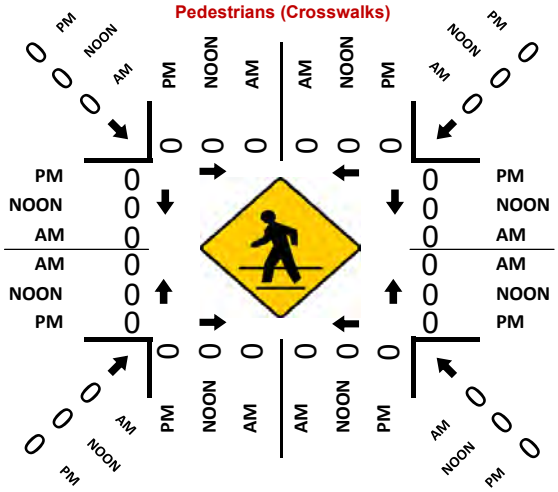
Total Vehicles (NOON)



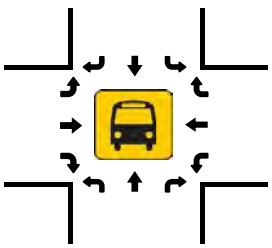
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Paramount Blvd & Gardendale St
City: South Gate
Control: Signalized

Project ID: 17-05668-020
Date: 10/11/2017

Total

NS/EW Streets:	Paramount Blvd				Paramount Blvd				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	1	0	1	2	0	0	1	2	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	23	215	19	0	14	235	14	2	19	52	9	0	33	125	33	0	793
7:15 AM	36	236	24	0	23	234	23	0	19	100	13	0	43	144	42	0	937
7:30 AM	43	221	24	0	32	218	26	0	21	125	20	0	37	172	41	0	980
7:45 AM	33	224	20	0	24	254	23	0	20	128	16	0	34	180	39	0	995
8:00 AM	49	261	23	0	35	194	19	1	20	81	22	0	36	142	41	0	924
8:15 AM	27	223	14	0	24	213	11	1	23	81	13	0	20	113	36	0	799
8:30 AM	29	235	20	0	21	171	14	1	17	55	8	0	29	89	34	0	723
8:45 AM	32	209	10	0	28	152	7	2	14	42	4	0	28	80	30	0	638
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	272	1824	154	0	201	1671	137	7	153	664	105	0	260	1045	296	0	6789
APPROACH %'s :	12.09%	81.07%	6.84%	0.00%	9.97%	82.89%	6.80%	0.35%	16.59%	72.02%	11.39%	0.00%	16.24%	65.27%	18.49%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	161	942	91	0	114	900	91	1	80	434	71	0	150	638	163	0	3836
PEAK HR FACTOR :	0.821	0.902	0.948	0.000	0.814	0.886	0.875	0.250	0.952	0.848	0.807	0.000	0.872	0.886	0.970	0.000	0.964
		0.896				0.919				0.881				0.940			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	1	0	1	2	0	0	1	2	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	17	259	26	0	28	236	24	1	24	104	18	0	22	71	34	0	864
4:15 PM	19	256	31	0	23	190	16	6	27	89	21	0	20	77	26	0	801
4:30 PM	25	222	22	0	34	217	27	0	18	129	14	0	20	78	34	0	840
4:45 PM	23	244	34	0	38	224	20	1	20	103	19	0	30	87	26	0	869
5:00 PM	14	272	34	0	31	292	29	2	18	113	20	0	23	80	28	0	956
5:15 PM	22	261	31	1	31	233	17	2	29	144	21	0	23	101	27	0	943
5:30 PM	19	234	22	1	20	190	18	2	15	116	21	0	31	89	34	0	812
5:45 PM	24	279	26	0	36	231	21	6	25	86	21	0	29	104	38	0	926
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	163	2027	226	2	241	1813	172	20	176	884	155	0	198	687	247	0	7011
APPROACH %'s :	6.74%	83.83%	9.35%	0.08%	10.73%	80.72%	7.66%	0.89%	14.49%	72.76%	12.76%	0.00%	17.49%	60.69%	21.82%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	79	1046	113	2	118	946	85	12	87	459	83	0	106	374	127	0	3637
PEAK HR FACTOR :	0.823	0.937	0.831	0.500	0.819	0.810	0.733	0.500	0.750	0.797	0.988	0.000	0.855	0.899	0.836	0.000	0.951
		0.942				0.820				0.811				0.887			

Prepared by National Data & Surveying Services

Paramount Blvd & N. Somerset Ranch Rd

Peak Hour Turning Movement Count

ID: 17-05668-021
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

Paramount Blvd — SOUTHBOUND

AM	526	801	0	0	1355	AM
NOON	0	0	0	0	0	NOON
PM	367	781	0	0	1364	PM

N. Somerset Ranch Rd — EASTBOUND

AM	NOON	PM	
1243	0	905	⇦
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
AM	NOON	PM	

N. Somerset Ranch Rd — WESTBOUND

PM	NOON	AM	
317	0	354	1
363	0	504	1
214	0	216	1
0	0	0	0
0	0	0	⇨
PM	NOON	AM	

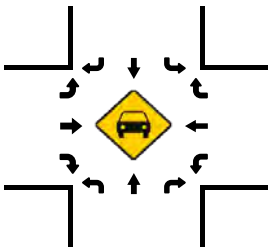
CONTROL: Signalized

TEV	3615 AM	0 NOON	3264 PM
PHF	0.93		0.95

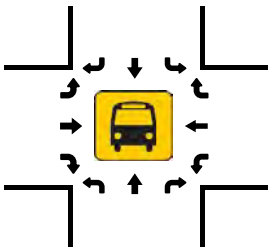
Paramount Blvd — NORTHBOUND

PM	995	0	175	1047	0	PM
NOON	0	0	0	0	0	NOON
AM	1017	0	213	1001	0	AM

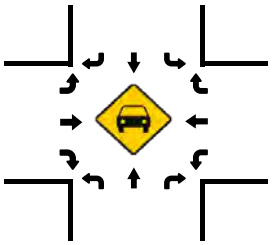
Total Vehicles (AM)



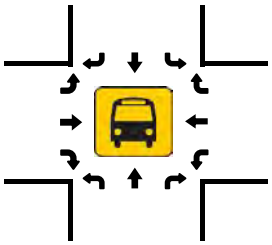
Total Vehicles (AM)



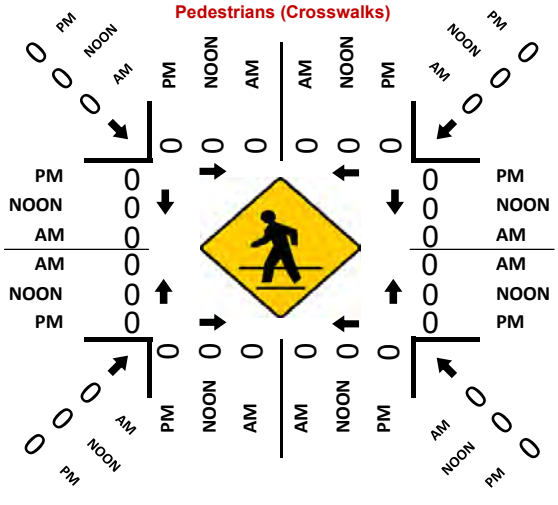
Total Vehicles (NOON)



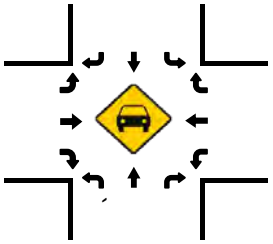
Total Vehicles (NOON)



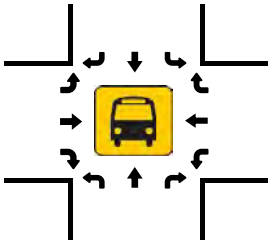
Pedestrians (Crosswalks)



Total Vehicles (PM)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Paramount Blvd & N. Somerset Ranch Rd
City: South Gate
Control: Signalized

Project ID: 17-05668-021
Date: 10/11/2017

Total

NS/EW Streets:	Paramount Blvd				Paramount Blvd				N. Somerset Ranch Rd				N. Somerset Ranch Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	0	2	1	0	0	0	0	0	1	1	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	46	208	0	0	0	173	132	0	0	0	0	0	29	100	51	0	739
7:15 AM	52	231	0	0	0	194	139	0	0	0	0	0	39	97	73	0	825
7:30 AM	56	248	0	0	0	250	119	0	0	0	0	0	65	158	73	0	969
7:45 AM	47	251	0	0	0	218	145	0	0	0	0	0	65	139	103	0	968
8:00 AM	58	271	0	0	0	139	123	0	0	0	0	0	47	110	105	0	853
8:15 AM	33	199	0	0	0	144	98	0	0	0	0	0	55	91	67	0	687
8:30 AM	38	215	0	0	0	143	99	0	0	0	0	0	52	85	83	0	715
8:45 AM	43	190	0	0	0	133	58	0	0	0	0	0	65	95	72	0	656
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	373	1813	0	0	0	1394	913	0	0	0	0	0	417	875	627	0	6412
APPROACH %'s :	17.06%	82.94%	0.00%	0.00%	0.00%	60.42%	39.58%	0.00%					21.73%	45.60%	32.67%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	213	1001	0	0	0	801	526	0	0	0	0	0	216	504	354	0	3615
PEAK HR FACTOR :	0.918	0.923	0.000	0.000	0.000	0.801	0.907	0.000	0.000	0.000	0.000	0.000	0.831	0.797	0.843	0.000	0.933
	0.922				0.899								0.875				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	0	2	1	0	0	0	0	0	1	1	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	37	227	0	0	0	191	85	0	0	0	0	0	58	89	94	0	781
4:15 PM	27	245	0	0	0	148	73	0	0	0	0	0	35	105	81	0	714
4:30 PM	49	232	0	0	0	191	100	0	0	0	0	0	43	93	101	0	809
4:45 PM	56	229	0	0	0	164	83	0	0	0	0	0	62	113	80	0	787
5:00 PM	49	265	0	0	0	217	101	0	0	0	0	0	50	107	68	0	857
5:15 PM	33	259	0	0	0	198	89	0	0	0	0	0	52	85	75	0	791
5:30 PM	48	248	0	0	0	189	86	0	0	0	0	0	61	84	74	0	790
5:45 PM	45	275	0	0	0	177	91	0	0	0	0	0	51	87	100	0	826
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	344	1980	0	0	0	1475	708	0	0	0	0	0	412	763	673	0	6355
APPROACH %'s :	14.80%	85.20%	0.00%	0.00%	0.00%	67.57%	32.43%	0.00%					22.29%	41.29%	36.42%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	175	1047	0	0	0	781	367	0	0	0	0	0	214	363	317	0	3264
PEAK HR FACTOR :	0.893	0.952	0.000	0.000	0.000	0.900	0.908	0.000	0.000	0.000	0.000	0.000	0.877	0.848	0.793	0.000	0.952
	0.955				0.903								0.939				

Prepared by National Data & Surveying Services

Paramount Blvd & S. Somerset Ranch Rd

Peak Hour Turning Movement Count

ID: 17-05668-022
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

Paramount Blvd — SOUTHBOUND

AM	0	708	292	0	1198	AM
NOON	0	0	0	0	0	NOON
PM	0	795	195	0	1211	PM

S. Somerset Ranch Rd — EASTBOUND

AM	NOON	PM		
0	0	0		
0	0	0	0	
394	0	407	1	
644	0	724	1.5	
121	0	169	0.5	
AM	NOON	PM		

S. Somerset Ranch Rd — WESTBOUND

PM	NOON	AM	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1108	0	1280	
PM	NOON	AM	

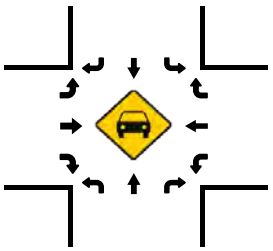
Paramount Blvd — NORTHBOUND

PM	964	0	0	804	189	PM
NOON	0	0	0	0	0	NOON
AM	829	0	0	804	344	AM

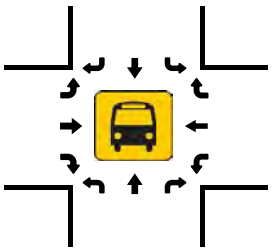
0	2	2	0	
0	0	2	1	

CONTROL			
Signalized			
TEV	3307 AM	0 NOON	3283 PM
PHF	0.92		0.97

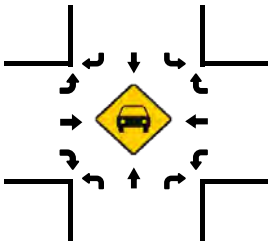
Total Vehicles (AM)



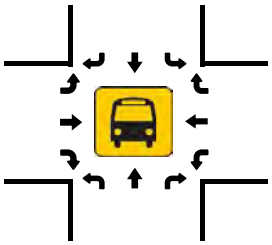
Total Vehicles (AM)



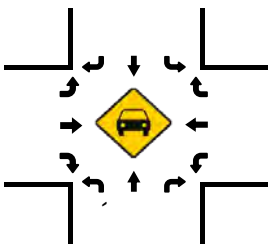
Total Vehicles (NOON)



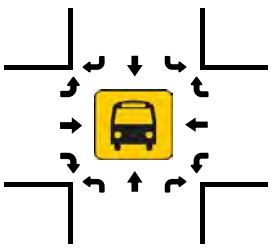
Total Vehicles (NOON)



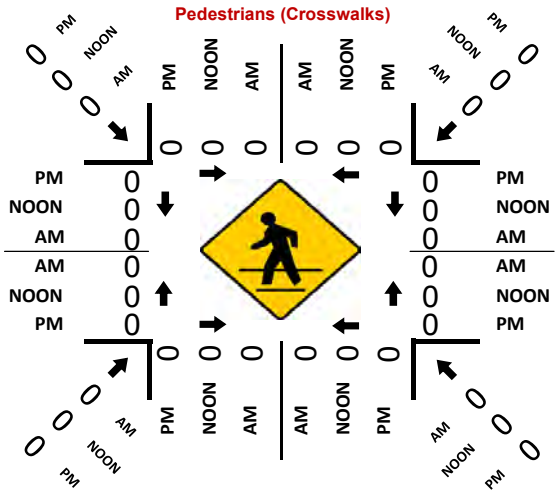
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Paramount Blvd & S. Somerset Ranch Rd
City: South Gate
Control: Signalized

Project ID: 17-05668-022
Date: 10/11/2017

Total

NS/EW Streets:	Paramount Blvd				Paramount Blvd				S. Somerset Ranch Rd				S. Somerset Ranch Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	1	0	2	2	0	0	1	1.5	0.5	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	159	65	0	62	138	0	0	101	149	22	0	0	0	0	0	696
7:15 AM	0	172	75	0	84	144	0	0	101	156	27	0	0	0	0	0	759
7:30 AM	0	204	82	0	91	214	0	0	96	171	41	0	0	0	0	0	899
7:45 AM	0	205	98	0	71	205	0	0	100	181	23	0	0	0	0	0	883
8:00 AM	0	223	89	0	46	145	0	0	97	136	30	0	0	0	0	0	766
8:15 AM	0	151	41	0	50	151	0	0	88	125	32	0	0	0	0	0	638
8:30 AM	0	165	46	0	42	149	0	0	80	76	22	0	0	0	0	0	580
8:45 AM	0	152	33	0	48	149	0	0	87	86	26	0	0	0	0	0	581
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1431	529	0	494	1295	0	0	750	1080	223	0	0	0	0	0	5802
APPROACH %'s :	0.00%	73.01%	26.99%	0.00%	27.61%	72.39%	0.00%	0.00%	36.53%	52.61%	10.86%	0.00%					
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	804	344	0	292	708	0	0	394	644	121	0	0	0	0	0	3307
PEAK HR FACTOR :	0.000	0.901	0.878	0.000	0.802	0.827	0.000	0.000	0.975	0.890	0.738	0.000	0.000	0.000	0.000	0.000	0.920
		0.920				0.820				0.941							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	1	0	2	2	0	0	1	1.5	0.5	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	166	32	0	43	195	0	0	89	138	48	0	0	0	0	0	711
4:15 PM	0	188	40	0	47	145	0	0	83	155	46	0	0	0	0	0	704
4:30 PM	0	190	37	0	54	176	0	0	96	196	57	0	0	0	0	0	806
4:45 PM	0	192	40	0	46	185	0	0	93	165	51	0	0	0	0	0	772
5:00 PM	0	209	44	0	63	200	0	0	104	188	38	0	0	0	0	0	846
5:15 PM	0	185	47	0	56	196	0	0	99	186	44	0	0	0	0	0	813
5:30 PM	0	193	44	0	38	209	0	0	105	164	46	0	0	0	0	0	799
5:45 PM	0	217	54	0	38	190	0	0	99	186	41	0	0	0	0	0	825
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1540	338	0	385	1496	0	0	768	1378	371	0	0	0	0	0	6276
APPROACH %'s :	0.00%	82.00%	18.00%	0.00%	20.47%	79.53%	0.00%	0.00%	30.51%	54.75%	14.74%	0.00%					
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	804	189	0	195	795	0	0	407	724	169	0	0	0	0	0	3283
PEAK HR FACTOR :	0.000	0.926	0.875	0.000	0.774	0.951	0.000	0.000	0.969	0.963	0.918	0.000	0.000	0.000	0.000	0.000	0.970
		0.916				0.941				0.985							

Prepared by National Data & Surveying Services

Downey Ave & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-023
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND (Downey Ave)

	L	T	R	U	Total	
AM	94	328	143	0	550	AM
NOON	0	0	0	0	0	NOON
PM	67	349	100	0	704	PM

EASTBOUND (Gardendale St)

	AM	NOON	PM
U	0	0	0
L	62	0	75
T	516	0	556
R	89	0	73

WESTBOUND (Gardendale St)

	PM	NOON	AM
U	106	0	88
L	462	0	644
T	38	0	48
R	0	0	0

NORTHBOUND (Downey Ave)

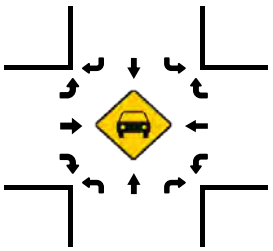
	L	T	R	U	Total	
PM	460	0	130	523	47	PM
NOON	0	0	0	0	0	NOON
AM	465	0	138	400	30	AM

CONTROL

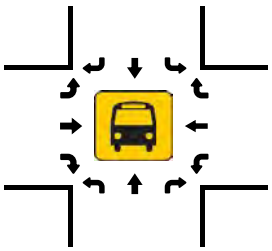
Signalized

		AM	NOON	PM
TEV	2580	0	2526	
PHF		0.92		0.93

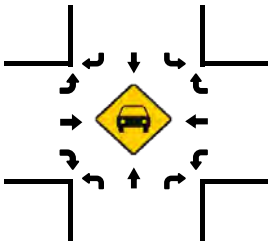
Total Vehicles (AM)



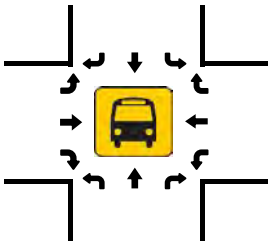
Total Vehicles (AM)



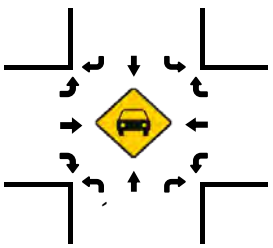
Total Vehicles (NOON)



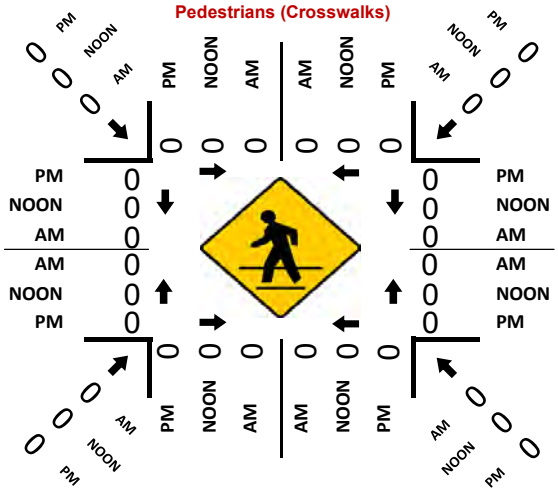
Total Vehicles (NOON)



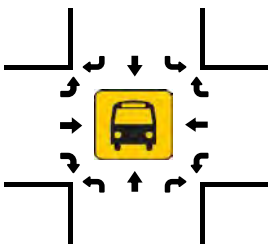
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Downey Ave & Gardendale St
City: South Gate
Control: Signalized

Project ID: 17-05668-023
Date: 10/11/2017

Total

NS/EW Streets:	Downey Ave				Downey Ave				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	27	73	6	0	15	51	6	0	10	87	5	0	11	138	17	0	446
7:15 AM	34	136	5	0	39	105	18	0	15	115	14	0	6	149	20	0	656
7:30 AM	41	99	10	0	43	90	22	0	18	134	27	0	19	167	28	0	698
7:45 AM	36	77	8	0	38	85	43	0	16	151	30	0	15	176	15	0	690
8:00 AM	27	88	7	0	23	48	11	0	13	116	18	0	8	152	25	0	536
8:15 AM	40	79	14	0	22	50	8	0	17	107	14	0	6	136	19	0	512
8:30 AM	15	62	3	0	19	55	13	0	5	84	20	0	5	114	14	0	409
8:45 AM	24	64	7	0	13	61	2	0	4	63	16	0	9	96	14	0	373
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	244	678	60	0	212	545	123	0	98	857	144	0	79	1128	152	0	4320
APPROACH %'s :	24.85%	69.04%	6.11%	0.00%	24.09%	61.93%	13.98%	0.00%	8.92%	77.98%	13.10%	0.00%	5.81%	83.00%	11.18%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	138	400	30	0	143	328	94	0	62	516	89	0	48	644	88	0	2580
PEAK HR FACTOR :	0.841	0.735	0.750	0.000	0.831	0.781	0.547	0.000	0.861	0.854	0.742	0.000	0.632	0.915	0.786	0.000	0.924
	0.811				0.851				0.846				0.911				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	24	133	10	0	21	90	18	0	13	131	20	0	12	96	30	0	598
4:15 PM	36	127	18	0	27	84	10	0	18	124	10	0	8	82	28	0	572
4:30 PM	34	118	9	0	31	83	9	0	13	145	20	0	10	86	18	0	576
4:45 PM	31	96	17	0	23	79	6	0	20	154	21	0	10	104	22	0	583
5:00 PM	29	126	9	0	28	93	10	0	19	150	18	0	6	103	22	0	613
5:15 PM	25	119	7	0	25	91	16	0	19	173	20	0	12	119	18	0	644
5:30 PM	36	124	14	0	24	75	24	0	16	123	16	0	9	104	28	0	593
5:45 PM	40	154	17	0	23	90	17	0	21	110	19	0	11	136	38	0	676
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	255	997	101	0	202	685	110	0	139	1110	144	0	78	830	204	0	4855
APPROACH %'s :	18.85%	73.69%	7.46%	0.00%	20.26%	68.71%	11.03%	0.00%	9.98%	79.68%	10.34%	0.00%	7.01%	74.64%	18.35%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	130	523	47	0	100	349	67	0	75	556	73	0	38	462	106	0	2526
PEAK HR FACTOR :	0.813	0.849	0.691	0.000	0.893	0.938	0.698	0.000	0.893	0.803	0.913	0.000	0.792	0.849	0.697	0.000	0.934
	0.829				0.977				0.830				0.819				

Prepared by National Data & Surveying Services

Brookshire Ave/N. Somerset Ranch Rd & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-024
City: South Gate

Day: Wednesday
Date: 10/11/2017

PEAK HOURS

AM	07:15 AM - 08:15 AM
NOON	NONE
PM	05:00 PM - 06:00 PM

COUNT PERIODS

AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

Brookshire Ave/N. Somerset Ranch Rd

SOUTHBOUND

AM	87	137	150	0	357	AM
NOON	0	0	0	0	0	NOON
PM	68	115	109	0	412	PM

EASTBOUND (Gardendale St)

AM	NOON	PM		
775	0	634		
0	0	0	0	
76	0	77	1	
626	0	589	1.5	
14	0	5	0.5	

WESTBOUND (Gardendale St)

	PM	NOON	AM
0	117	0	150
2	564	0	687
1	60	0	47
0	0	0	0
	721	0	790

NORTHBOUND

PM	180	0	2	218	23	PM
NOON	0	0	0	0	0	NOON
AM	198	0	1	131	14	AM

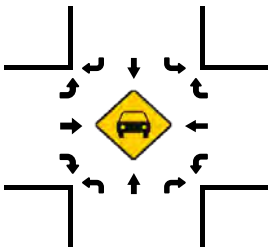
Brookshire Ave/N. Somerset Ranch R

1	1	1	0	
			0	0
			0	0
			1	1
			0	0

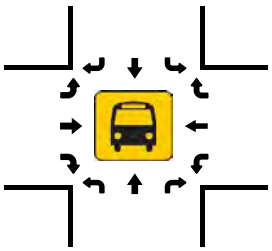
CONTROL: Signalized

TEV	2120	0	1947
	AM	NOON	PM
PHF	0.88		0.95

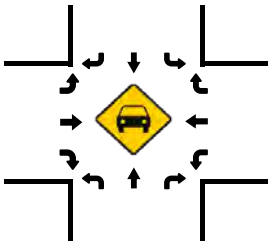
Total Vehicles (AM)



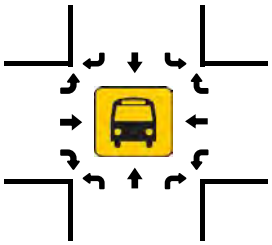
Total Vehicles (AM)



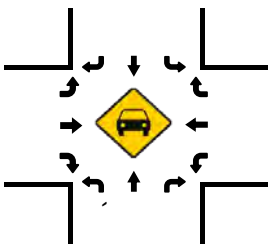
Total Vehicles (NOON)



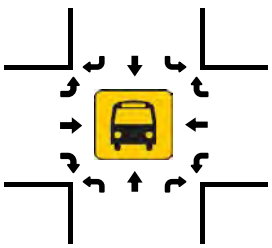
Total Vehicles (NOON)



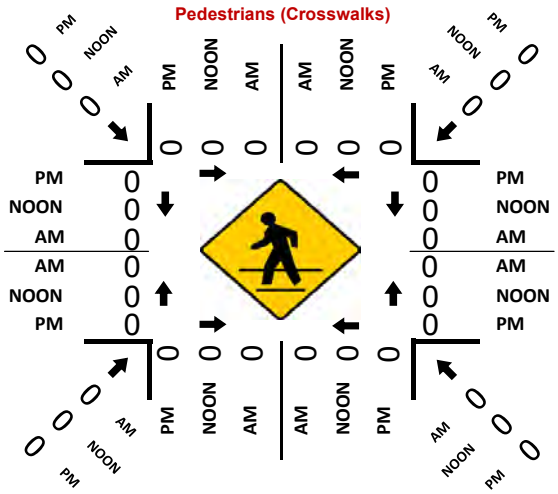
Total Vehicles (PM)



Total Vehicles (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Brookshire Ave/N. Somerset Ranch Rd & Gardendale St
City: South Gate
Control: Signalized

Project ID: 17-05668-024
Date: 10/11/2017

Total

NS/EW Streets:	Brookshire Ave/N. Somerset Ranch Rd				Brookshire Ave/N. Somerset Ranch Rd				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	1	1	1	0	1	1.5	0.5	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	29	1	0	20	24	16	0	11	94	6	0	3	138	29	0	371
7:15 AM	1	43	4	0	31	37	14	0	19	150	3	0	8	158	46	0	514
7:30 AM	0	47	2	0	38	44	33	0	21	167	6	0	8	175	61	0	602
7:45 AM	0	24	4	0	55	40	25	0	23	180	3	0	14	180	25	0	573
8:00 AM	0	17	4	0	26	16	15	0	13	129	2	0	17	174	18	0	431
8:15 AM	0	21	7	0	18	16	10	0	5	125	2	0	12	145	21	0	382
8:30 AM	0	11	0	0	19	22	10	0	10	94	4	0	3	124	16	0	313
8:45 AM	0	18	4	0	14	17	8	0	10	71	2	0	7	97	15	0	263
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	210	26	0	221	216	131	0	112	1010	28	0	72	1191	231	0	3449
APPROACH %'s :	0.42%	88.61%	10.97%	0.00%	38.91%	38.03%	23.06%	0.00%	9.74%	87.83%	2.43%	0.00%	4.82%	79.72%	15.46%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	1	131	14	0	150	137	87	0	76	626	14	0	47	687	150	0	2120
PEAK HR FACTOR :	0.250	0.697	0.875	0.000	0.682	0.778	0.659	0.000	0.826	0.869	0.583	0.000	0.691	0.954	0.615	0.000	0.880
	0.745				0.779				0.869				0.906				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	1	1	1	0	1	1.5	0.5	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	1	36	1	0	27	21	14	0	15	139	1	0	9	129	18	0	411
4:15 PM	0	40	7	0	25	19	14	0	21	138	4	0	9	112	23	0	412
4:30 PM	0	47	7	0	17	23	14	0	18	173	1	0	8	108	24	0	440
4:45 PM	1	55	6	0	17	25	22	0	19	157	2	0	7	117	25	0	453
5:00 PM	1	41	4	0	29	27	18	0	23	158	4	0	20	123	25	0	473
5:15 PM	1	61	10	0	29	30	12	0	25	171	0	0	9	135	30	0	513
5:30 PM	0	64	6	0	34	27	12	0	12	134	0	0	14	142	32	0	477
5:45 PM	0	52	3	0	17	31	26	0	17	126	1	0	17	164	30	0	484
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	4	396	44	0	195	203	132	0	150	1196	13	0	93	1030	207	0	3663
APPROACH %'s :	0.90%	89.19%	9.91%	0.00%	36.79%	38.30%	24.91%	0.00%	11.04%	88.01%	0.96%	0.00%	6.99%	77.44%	15.56%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	2	218	23	0	109	115	68	0	77	589	5	0	60	564	117	0	1947
PEAK HR FACTOR :	0.500	0.852	0.575	0.000	0.801	0.927	0.654	0.000	0.770	0.861	0.313	0.000	0.750	0.860	0.914	0.000	0.949
	0.844				0.986				0.856				0.878				

Prepared by National Data & Surveying Services

Lakewood Blvd & Imperial Hwy

Peak Hour Turning Movement Count

ID: 17-05668-025
City: Downey

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
04:45 PM - 05:45 PM	04:00 PM - 06:00 PM

Lakewood Blvd — SOUTHBOUND

AM	137	828	165	26	1242	AM
NOON	0	0	0	0	0	NOON
PM	172	834	81	18	1270	PM

Imperial Hwy — EASTBOUND

AM	NOON	PM	
1336	0	1434	
14	0	41	0
113	0	197	1
1096	0	962	3
365	0	360	1

WESTBOUND — Imperial Hwy

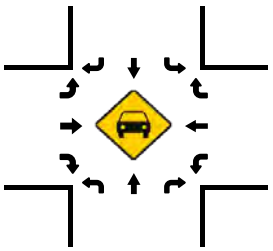
PM	NOON	AM	
90	0	89	0
891	0	800	3
304	0	140	1
18	0	13	0
1210	0	1573	

NORTHBOUND — Lakewood Blvd

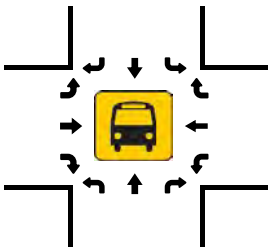
PM	1526	28	330	965	149	PM
NOON	0	0	0	0	0	NOON
AM	1366	33	385	1014	299	AM

CONTROL			
Signalized			
TEV	5517 AM	0 NOON	5440 PM
PHF	0.93		0.99

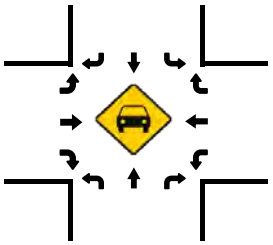
Total Vehicles (AM)



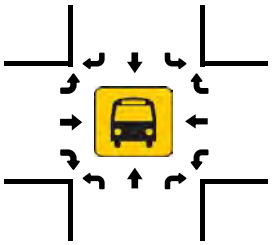
Total Vehicles (AM)



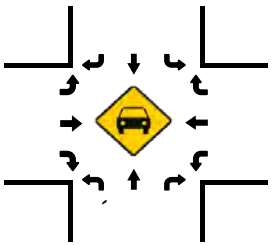
Total Vehicles (NOON)



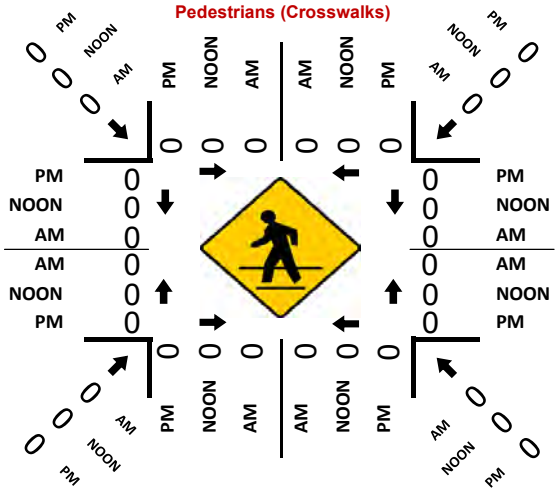
Total Vehicles (NOON)



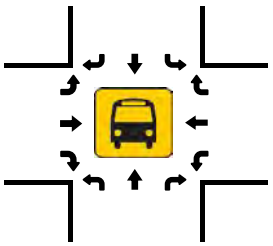
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Lakewood Blvd & Imperial Hwy
City: Downey
Control: Signalized

Project ID: 17-05668-025
Date: 10/11/2017

Total

NS/EW Streets:	Lakewood Blvd				Lakewood Blvd				Imperial Hwy				Imperial Hwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	3	0	0	2	3	0	0	1	3	1	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	47	174	56	11	14	162	26	1	24	182	69	5	29	218	15	2	1035
7:15 AM	98	287	67	10	32	200	28	3	24	184	87	5	24	193	18	1	1261
7:30 AM	94	273	53	7	41	215	40	4	23	264	96	2	44	224	39	3	1422
7:45 AM	95	241	85	9	60	258	45	12	30	310	106	2	28	180	17	4	1482
8:00 AM	98	213	94	7	32	155	24	7	36	338	76	5	44	203	15	5	1352
8:15 AM	81	258	75	7	18	122	27	0	38	229	69	3	39	187	13	6	1172
8:30 AM	70	224	80	4	17	122	21	0	35	230	71	3	40	187	11	2	1117
8:45 AM	79	257	65	3	13	124	34	1	28	162	37	3	32	150	12	2	1002
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	662	1927	575	58	227	1358	245	28	238	1899	611	28	280	1542	140	25	9843
APPROACH %'s :	20.55%	59.81%	17.85%	1.80%	12.22%	73.09%	13.19%	1.51%	8.57%	68.41%	22.01%	1.01%	14.09%	77.60%	7.05%	1.26%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	385	1014	299	33	165	828	137	26	113	1096	365	14	140	800	89	13	5517
PEAK HR FACTOR :	0.982	0.883	0.795	0.825	0.688	0.802	0.761	0.542	0.785	0.811	0.861	0.700	0.795	0.893	0.571	0.650	0.931
	0.937				0.771				0.873				0.840				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	3	0	0	2	3	0	0	1	3	1	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	80	255	36	5	15	197	37	1	42	235	76	8	74	206	21	4	1292
4:15 PM	79	202	46	7	15	178	41	3	43	222	71	3	56	187	21	4	1178
4:30 PM	96	222	48	6	22	182	44	0	44	241	93	12	72	198	25	6	1311
4:45 PM	79	223	42	7	24	208	45	9	60	250	71	15	78	203	22	5	1341
5:00 PM	91	242	34	6	23	201	40	1	46	253	103	8	74	238	18	2	1380
5:15 PM	70	227	32	7	19	236	42	3	48	198	94	10	86	238	24	6	1340
5:30 PM	90	273	41	8	15	189	45	5	43	261	92	8	66	212	26	5	1379
5:45 PM	74	239	39	9	32	206	51	3	58	209	82	11	65	212	17	4	1311
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	659	1883	318	55	165	1597	345	25	384	1869	682	75	571	1694	174	36	10532
APPROACH %'s :	22.61%	64.60%	10.91%	1.89%	7.74%	74.91%	16.18%	1.17%	12.76%	62.09%	22.66%	2.49%	23.07%	68.44%	7.03%	1.45%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	330	965	149	28	81	834	172	18	197	962	360	41	304	891	90	18	5440
PEAK HR FACTOR :	0.907	0.884	0.887	0.875	0.844	0.883	0.956	0.500	0.821	0.921	0.874	0.683	0.884	0.936	0.865	0.750	0.986
	0.893				0.921				0.951				0.920				

Prepared by National Data & Surveying Services

Lakewood Blvd & Gardendale St

Peak Hour Turning Movement Count

ID: 17-05668-026
City: Downey

Day: Wednesday
Date: 10/11/2017

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND (Lakewood Blvd)

AM	167	874	71	1	1031	AM
NOON	0	0	0	0	0	NOON
PM	307	921	111	0	1033	PM
	1	2	1	0		

EASTBOUND (Gardendale St)

AM	NOON	PM	
918	0	847	
0	0	0	0
103	0	115	1
539	0	553	2
269	0	183	0
AM	NOON	PM	

CONTROL

Signalized

TEV	3801	0	3782
	AM	NOON	PM
PHF	0.94		0.99

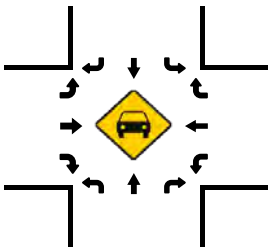
WESTBOUND (Gardendale St)

PM	NOON	AM	
105	0	132	0
361	0	536	2
59	0	56	1
0	0	0	0
732	0	648	
PM	NOON	AM	

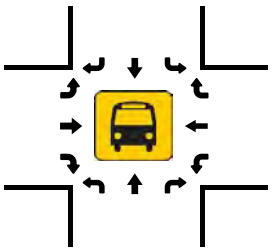
NORTHBOUND (Lakewood Blvd)

PM	1170	7	179	813	68	PM
NOON	0	0	0	0	0	NOON
AM	1204	5	215	795	38	AM
		0	1	2	0	

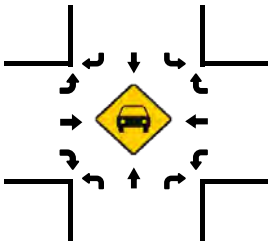
Total Vehicles (AM)



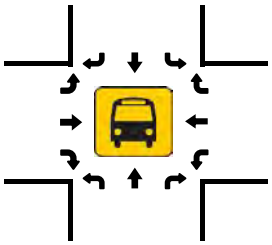
Total Vehicles (AM)



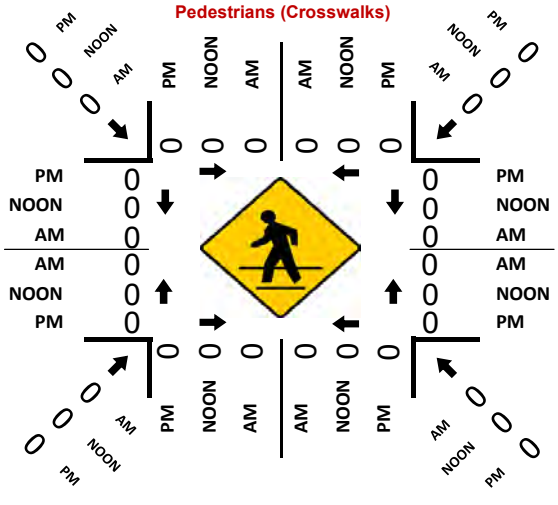
Total Vehicles (NOON)



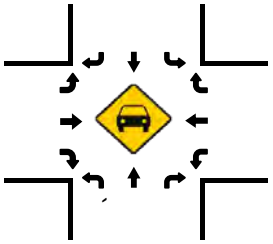
Total Vehicles (NOON)



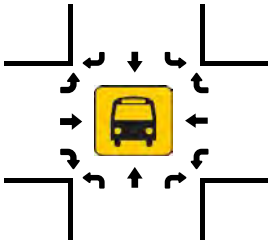
Pedestrians (Crosswalks)



Total Vehicles (PM)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Lakewood Blvd & Gardendale St
City: Downey
Control: Signalized

Project ID: 17-05668-026
Date: 10/11/2017

Total

NS/EW Streets:	Lakewood Blvd				Lakewood Blvd				Gardendale St				Gardendale St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	1	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	31	158	4	2	10	141	34	0	28	98	41	0	9	111	40	0	707
7:15 AM	50	224	8	2	15	187	31	0	23	114	62	0	10	124	40	0	890
7:30 AM	65	189	6	0	16	197	39	1	31	142	74	0	16	126	40	0	942
7:45 AM	63	193	4	1	25	283	54	0	25	130	65	0	9	132	23	0	1007
8:00 AM	37	189	20	2	15	207	43	0	24	153	68	0	21	154	29	0	962
8:15 AM	54	180	10	1	15	183	31	0	32	113	60	0	14	104	27	0	824
8:30 AM	47	176	13	2	9	179	40	0	32	79	48	0	14	65	13	0	717
8:45 AM	31	140	10	2	9	180	21	0	31	52	42	0	15	66	23	0	622
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	378	1449	75	12	114	1557	293	1	226	881	460	0	108	882	235	0	6671
APPROACH %'s :	19.75%	75.71%	3.92%	0.63%	5.80%	79.24%	14.91%	0.05%	14.42%	56.22%	29.36%	0.00%	8.82%	72.00%	19.18%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	215	795	38	5	71	874	167	1	103	539	269	0	56	536	132	0	3801
PEAK HR FACTOR :	0.827	0.887	0.475	0.625	0.710	0.772	0.773	0.250	0.831	0.881	0.909	0.000	0.667	0.870	0.825	0.000	0.944
		0.927				0.769				0.922				0.887			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	1	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	35	211	18	3	29	221	55	0	27	124	36	0	13	82	14	0	868
4:15 PM	47	193	6	2	15	207	61	0	28	124	48	0	9	61	20	0	821
4:30 PM	33	175	11	5	20	211	49	0	27	143	31	0	10	61	25	0	801
4:45 PM	40	212	9	3	25	220	61	0	39	138	37	0	16	81	21	0	902
5:00 PM	43	215	12	1	27	221	69	0	31	146	49	0	12	96	31	0	953
5:15 PM	38	217	17	2	22	235	76	0	28	149	50	0	18	71	22	0	945
5:30 PM	47	179	14	2	34	247	74	0	33	137	49	0	17	96	25	0	954
5:45 PM	51	202	25	2	28	218	88	0	23	121	35	0	12	98	27	0	930
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	334	1604	112	20	200	1780	533	0	236	1082	335	0	107	646	185	0	7174
APPROACH %'s :	16.14%	77.49%	5.41%	0.97%	7.96%	70.83%	21.21%	0.00%	14.28%	65.46%	20.27%	0.00%	11.41%	68.87%	19.72%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	179	813	68	7	111	921	307	0	115	553	183	0	59	361	105	0	3782
PEAK HR FACTOR :	0.877	0.937	0.680	0.875	0.816	0.932	0.872	0.000	0.871	0.928	0.915	0.000	0.819	0.921	0.847	0.000	0.991
		0.953				0.943				0.937				0.944			

Prepared by National Data & Surveying Services

Erickson Ave & Amigos Ave

Peak Hour Turning Movement Count

ID: 18-05531-001
City: Downey

Day: Wednesday
Date: 08/15/2018

PEAK HOURS	COUNT PERIODS
07:00 AM - 08:00 AM	07:00 AM - 09:00 AM
NONE	NONE
04:15 PM - 05:15 PM	04:00 PM - 06:00 PM

SOUTHBOUND (Erickson Ave)

	L	T	R	U	Total
AM	44	79	42	0	53
NOON	0	0	0	0	0
PM	8	40	15	0	103

EASTBOUND (Amigos Ave)

	L	T	R	U
AM	91	0	41	0
NOON	0	0	0	2
PM	8	0	19	1
	13	0	17	2
	29	0	47	0

WESTBOUND (Amigos Ave)

	L	T	R	U
PM	12	0	9	0
NOON	8	0	7	2
AM	1	0	0	1
	0	0	0	0
	34	0	57	0

NORTHBOUND (Erickson Ave)

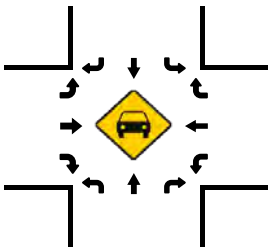
	L	T	R	U	Total
PM	88	0	25	72	2
NOON	0	0	0	0	0
AM	108	0	40	36	2

CONTROL

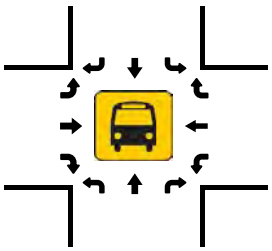
4-Way Stop

TEV	309 AM	0 NOON	266 PM
PHF	0.91		0.81

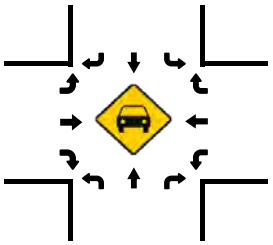
Total Vehicles (AM)



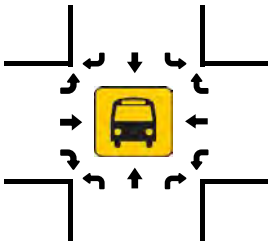
Total Vehicles (AM)



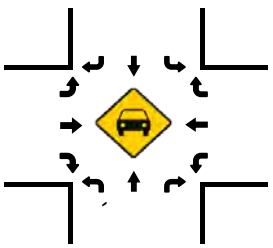
Total Vehicles (NOON)



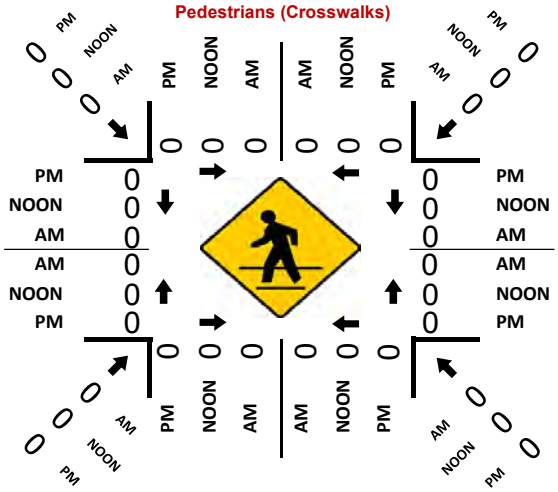
Total Vehicles (NOON)



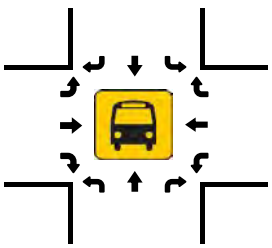
Total Vehicles (PM)



Pedestrians (Crosswalks)



Total Vehicles (PM)



National Data & Surveying Services Intersection Turning Movement Count

Location: Erickson Ave & Amigos Ave
City: Downey
Control: 4-Way Stop

Project ID: 18-05531-001
Date: 8/15/2018

Total

NS/EW Streets:	Erickson Ave				Erickson Ave				Amigos Ave				Amigos Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	10	14	0	0	5	15	10	0	2	2	8	0	0	0	1	0	67
7:15 AM	8	7	1	0	11	15	16	0	1	4	8	0	0	0	2	0	73
7:30 AM	10	8	1	0	16	20	10	0	3	1	8	0	0	5	2	0	84
7:45 AM	12	7	0	0	10	29	8	0	2	6	5	0	0	2	4	0	85
8:00 AM	11	11	0	0	9	11	14	0	4	0	5	0	0	1	1	0	67
8:15 AM	8	6	1	0	8	6	11	0	4	2	3	0	0	0	0	0	49
8:30 AM	8	3	1	0	6	16	10	0	2	1	2	0	0	3	0	0	52
8:45 AM	6	8	1	0	6	12	11	1	6	2	3	0	0	2	1	0	59
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	73	64	5	0	71	124	90	1	24	18	42	0	0	13	11	0	536
APPROACH %'s :	51.41%	45.07%	3.52%	0.00%	24.83%	43.36%	31.47%	0.35%	28.57%	21.43%	50.00%	0.00%	0.00%	54.17%	45.83%	0.00%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	40	36	2	0	42	79	44	0	8	13	29	0	0	7	9	0	309
PEAK HR FACTOR :	0.833	0.643	0.500	0.000	0.656	0.681	0.688	0.000	0.667	0.542	0.906	0.000	0.000	0.350	0.563	0.000	0.909
	0.813				0.878				0.962				0.571				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	6	11	3	0	7	5	1	0	2	2	6	0	0	1	3	0	47
4:15 PM	12	15	0	0	3	8	6	0	1	6	8	0	0	0	3	0	62
4:30 PM	7	31	0	0	4	9	1	0	5	5	15	0	0	2	3	0	82
4:45 PM	5	10	2	0	5	12	0	0	8	5	13	0	0	4	4	0	68
5:00 PM	1	16	0	0	3	11	1	0	5	1	11	0	1	2	2	0	54
5:15 PM	6	10	3	0	5	3	2	0	1	6	6	0	0	2	1	0	45
5:30 PM	2	11	2	0	1	9	0	0	2	3	9	0	0	0	1	0	40
5:45 PM	1	3	0	0	2	5	2	1	5	4	5	0	0	1	1	0	30
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	40	107	10	0	30	62	13	1	29	32	73	0	1	12	18	0	428
APPROACH %'s :	25.48%	68.15%	6.37%	0.00%	28.30%	58.49%	12.26%	0.94%	21.64%	23.88%	54.48%	0.00%	3.23%	38.71%	58.06%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	25	72	2	0	15	40	8	0	19	17	47	0	1	8	12	0	266
PEAK HR FACTOR :	0.521	0.581	0.250	0.000	0.750	0.833	0.333	0.000	0.594	0.708	0.783	0.000	0.250	0.500	0.750	0.000	0.811
	0.651				0.926				0.798				0.656				

APPENDIX B

ICU AND LEVELS OF SERVICE EXPLANATION
ICU DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS
CITY OF DOWNEY

INTERSECTION CAPACITY UTILIZATION (ICU) DESCRIPTION

Level of Service is a term used to describe prevailing conditions and their effect on traffic. Broadly interpreted, the Levels of Service concept denotes any one of a number of differing combinations of operating conditions which may occur as a roadway is accommodating various traffic volumes. Level of Service is a qualitative measure of the effect of such factors as travel speed, travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience.

Six Levels of Service, A through F, have been defined in the 1965 *Highway Capacity Manual*, published by the Transportation Research Board. Level of Service A describes a condition of free flow, with low traffic volumes and relatively high speeds, while Level of Service F describes forced traffic flow at low speeds with jammed conditions and queues which cannot clear during the green phases.

The Intersection Capacity Utilization (ICU) method of intersection capacity analysis has been used in our studies. It directly relates traffic demand and available capacity for key intersection movements, regardless of present signal timing, The capacity per hour of green time for each approach is calculated based on the methods of the *Highway Capacity Manual*. The proportion of total signal time needed by each key movement is determined and compared to the total time available (100 percent of the hour). The result of summing the requirements of the conflicting key movements plus an allowance for clearance times is expressed as a decimal fraction. Conflicting key traffic movements are those opposing movements whose combined green time requirements are greatest.

The resulting ICU represents the proportion of the total hour required to accommodate intersection demand volumes if the key conflicting traffic movements are operating at capacity. Other movements may be operating near capacity, or may be operating at significantly better levels. The ICU may be translated to a Level of Service as tabulated below.

The Levels of Service (abbreviated from the *Highway Capacity Manual*) are listed here with their corresponding ICU and Load Factor equivalents. Load Factor is that proportion of the signal cycles during the peak hour which are fully loaded; i.e. when all of the vehicles waiting at the beginning of green are not able to clear on that green phase.

Intersection Capacity Utilization Characteristics

Level of Service	Load Factor	Equivalent ICU
A	0.0	0.00 - 0.60
B	0.0 - 0.1	0.61 - 0.70
C	0.1 - 0.3	0.71 - 0.80
D	0.3 - 0.7	0.81 - 0.90
E	0.7 - 1.0	0.91 - 1.00
F	Not Applicable	Not Applicable

SERVICE LEVEL A
There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B
This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

SERVICE LEVEL C
At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more than one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

SERVICE LEVEL D
This level encompasses a zone of increasing restriction approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak hour, but enough cycles with lower demand occur to permit periodic clearance of queues, thus preventing excessive backups. Drivers frequently have to wait through more than one red signal. This level is the lower limit of acceptable operation to most drivers.

SERVICE LEVEL E
This represents near capacity and capacity operation. At capacity (ICU = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F
Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Gardendale Street

N-S St: Garfield Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-6

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	5	1600	0.003	0	5	1600	0.003	0	5	1600	0.003	0	5	1600	0.003
Nb Thru	921	3200	0.297 *	0	921	3200	0.340 *	-40	918	3200	0.297 *	0	918	3200	0.339 *
Nb Right	30	0	-	137	167	0	-	0	31	0	-	137	168	0	-
Sb Left	415	3200	0.130 *	82	497	3200	0.155 *	5	437	3200	0.136 *	82	519	3200	0.162 *
Sb Thru	611	3200	0.201	0	611	3200	0.201	-2	633	3200	0.209	0	633	3200	0.209
Sb Right	33	0	-	0	33	0	-	0	34	0	-	0	34	0	-
Eb Left	73	1600	0.046 *	0	73	1600	0.046 *	0	76	1600	0.047 *	0	76	1600	0.047 *
Eb Thru	59	1600	0.044	0	59	1600	0.044	0	61	1600	0.046	0	61	1600	0.046
Eb Right	11	0	-	0	11	0	-	0	11	0	-	0	11	0	-
Wb Left	121	0	0.076	19	140	0	0.088	0	126	0	0.079	19	145	0	0.091
Wb Thru	34	1600	0.097	0	34	1600	0.109 *	0	35	1600	0.101	0	35	1600	0.113 *
Wb Right [3]	736	3200	0.100 *	11	747	3200	0.078	2	767	3200	0.103 *	11	778	3200	0.081
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.673				0.750				0.684				0.762
LOS			B				C				B				C

** Key conflicting movement as a part of ICU*
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The westbound right-turn lane has an overlapping phase with southbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Gardendale Street

N-S St: Garfield Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-6

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	14	1600	0.009	0	14	1600	0.009	0	15	1600	0.009	0	15	1600	0.009
Nb Thru	641	3200	0.216 *	0	641	3200	0.223 *	-1	666	3200	0.226 *	0	666	3200	0.233 *
Nb Right	51	0	-	23	74	0	-	5	58	0	-	23	81	0	-
Sb Left	484	3200	0.151 *	14	498	3200	0.156 *	6	509	3200	0.159 *	14	523	3200	0.164 *
Sb Thru	699	3200	0.237	0	699	3200	0.237	-36	691	3200	0.235	0	691	3200	0.235
Sb Right	60	0	-	0	60	0	-	0	62	0	-	0	62	0	-
Eb Left	41	1600	0.026 *	0	41	1600	0.026 *	0	43	1600	0.027 *	0	43	1600	0.027 *
Eb Thru	26	1600	0.022	0	26	1600	0.022	0	27	1600	0.023	0	27	1600	0.023
Eb Right	9	0	-	0	9	0	-	0	9	0	-	0	9	0	-
Wb Left	83	0	0.052	110	193	0	0.121	3	89	0	0.056	110	199	0	0.125
Wb Thru	37	1600	0.075 *	0	37	1600	0.144 *	0	38	1600	0.080 *	0	38	1600	0.149 *
Wb Right [3]	347	3200	0.000	66	413	3200	0.000	7	368	3200	0.000	66	434	3200	0.000
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.568				0.648				0.592				0.672
LOS			A				B				A				B

* *Key conflicting movement as a part of ICU*
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The westbound right-turn lane has an overlapping phase with southbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Old River School Road @ Imperial Highway

N-S St: Old River School Road
E-W St: Imperial Highway
Project: 5-17-0354-1/ Rancho Los Amigos South Campus
File: ICU-12

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	12	1600	0.008 *	6	18	1600	0.011 *	0	12	1600	0.008 *	6	18	1600	0.012 *
Nb Thru	91	3200	0.033	6	97	3200	0.034	0	95	3200	0.034	6	101	3200	0.036
Nb Right	13	0	-	0	13	0	-	0	14	0	-	0	14	0	-
Sb Left	317	1600	0.198	0	317	1600	0.198	1	331	1600	0.207	0	331	1600	0.207
Sb Thru	49	1600	0.031	46	95	1600	0.059	0	51	1600	0.032	46	97	1600	0.061
Sb Right	458	1600	0.286 *	0	458	1600	0.286 *	0	476	1600	0.298 *	0	476	1600	0.298 *
Eb Left	267	1600	0.167 *	0	267	1600	0.167 *	0	278	1600	0.174 *	0	278	1600	0.174 *
Eb Thru	1486	4800	0.310	137	1623	4800	0.338	-94	1451	4800	0.302	137	1588	4800	0.331
Eb Right	167	1600	0.104	46	213	1600	0.133	0	174	1600	0.109	46	220	1600	0.137
Wb Left	9	1600	0.006	0	9	1600	0.006	0	9	1600	0.006	0	9	1600	0.006
Wb Thru	1195	4800	0.323 *	19	1214	4800	0.326 *	-39	1204	4800	0.327 *	19	1223	4800	0.331 *
Wb Right	353	0	-	0	353	0	-	0	367	0	-	0	367	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.883				0.891				0.906				0.914
LOS			D				D				E				E

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Old River School Road @ Imperial Highway

N-S St: Old River School Road
E-W St: Imperial Highway
Project: 5-17-0354-1/ Rancho Los Amigos South Campus
File: ICU-12

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	83	1600	0.052 *	37	120	1600	0.075 *	1	87	1600	0.055 *	37	124	1600	0.078 *
Nb Thru	46	3200	0.021	37	83	3200	0.033	2	50	3200	0.023	37	87	3200	0.034
Nb Right	22	0	-	0	22	0	-	0	23	0	-	0	23	0	-
Sb Left	288	1600	0.180	0	288	1600	0.180	-1	299	1600	0.187	0	299	1600	0.187
Sb Thru	34	1600	0.021	8	42	1600	0.026	1	36	1600	0.023	8	44	1600	0.028
Sb Right	329	1600	0.206 *	0	329	1600	0.206 *	0	342	1600	0.214 *	0	342	1600	0.214 *
Eb Left	250	1600	0.156 *	0	250	1600	0.156 *	0	260	1600	0.163 *	0	260	1600	0.163 *
Eb Thru	1421	4800	0.296	23	1444	4800	0.301	-25	1453	4800	0.303	23	1476	4800	0.307
Eb Right	43	1600	0.027	8	51	1600	0.032	2	47	1600	0.029	8	55	1600	0.034
Wb Left	3	1600	0.002	0	3	1600	0.002	0	3	1600	0.002	0	3	1600	0.002
Wb Thru	1110	4800	0.275 *	110	1220	4800	0.298 *	-93	1061	4800	0.267 *	110	1171	4800	0.290 *
Wb Right	210	0	-	0	210	0	-	0	218	0	-	0	218	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.789				0.835				0.798				0.844
LOS			C				D				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ W. Imperial Highway

N-S St: Erickson Avenue
E-W St: W. Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-13

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	31	3200	0.010 *	19	50	3200	0.016 *	0	32	3200	0.010 *	19	51	3200	0.016 *
Nb Thru	40	1600	0.025	0	40	1600	0.025	0	42	1600	0.026	0	42	1600	0.026
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	25	3200	0.016 *	0	25	3200	0.016 *	0	26	3200	0.017 *	0	26	3200	0.017 *
Sb Right	26	0	-	0	26	0	-	0	27	0	-	0	27	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	229	1600	0.143	183	412	1600	0.258	0	238	1600	0.149	183	421	1600	0.263
Wb Thru	18	1600	0.037	0	18	1600	0.037	0	19	1600	0.038	0	19	1600	0.038
Wb Right	41	0	-	0	41	0	-	0	43	0	-	0	43	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.269				0.389				0.276				0.396
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ W. Imperial Highway

N-S St: Erickson Avenue
E-W St: W. Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-13

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	83	3200	0.026 *	110	193	3200	0.060 *	3	89	3200	0.028 *	110	199	3200	0.062 *
Nb Thru	11	1600	0.007	0	11	1600	0.007	0	11	1600	0.007	0	11	1600	0.007
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	41	3200	0.023 *	0	41	3200	0.023 *	0	43	3200	0.023 *	0	43	3200	0.023 *
Sb Right	31	0	-	0	31	0	-	0	32	0	-	0	32	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	71	1600	0.044	30	101	1600	0.063	6	80	1600	0.050	30	110	1600	0.069
Wb Thru	8	1600	0.009	0	8	1600	0.009	0	8	1600	0.009	0	8	1600	0.009
Wb Right	6	0	-	0	6	0	-	0	6	0	-	0	6	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.193				0.246				0.201				0.254
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ E. Imperial Highway

N-S St: Erickson Avenue
E-W St: E. Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-14

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Nb Thru	42	3200	0.025	19	61	3200	0.039	0	44	3200	0.026	19	63	3200	0.040
Nb Right	39	0	-	25	64	0	-	0	41	0	-	25	66	0	-
Sb Left	47	1600	0.029	0	47	1600	0.029	0	49	1600	0.031	0	49	1600	0.031
Sb Thru	206	3200	0.064 *	183	389	3200	0.122 *	0	214	3200	0.067 *	183	397	3200	0.124 *
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	29	1600	0.018	0	29	1600	0.018	0	30	1600	0.019	0	30	1600	0.019
Eb Thru	3	1600	0.073 *	0	3	1600	0.159 *	0	3	1600	0.076 *	0	3	1600	0.162 *
Eb Right	114	0	-	137	251	0	-	0	119	0	-	137	256	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.238				0.380				0.243				0.386
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ E. Imperial Highway

N-S St: Erickson Avenue
E-W St: E. Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-14

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	87	3200	0.063 *	110	197	3200	0.144 *	3	93	3200	0.068 *	110	203	3200	0.148 *
Nb Right	116	0	-	147	263	0	-	3	124	0	-	147	271	0	-
Sb Left	59	1600	0.037 *	0	59	1600	0.037 *	0	61	1600	0.038 *	0	61	1600	0.038 *
Sb Thru	56	3200	0.018	30	86	3200	0.027	6	64	3200	0.020	30	94	3200	0.029
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	6	1600	0.004	0	6	1600	0.004	0	6	1600	0.004	0	6	1600	0.004
Eb Thru	4	1600	0.031 *	0	4	1600	0.045 *	0	4	1600	0.035 *	0	4	1600	0.049 *
Eb Right	45	0	-	23	68	0	-	5	52	0	-	23	75	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.231				0.326				0.241				0.336
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Industrial Avenue @ Gardendale Street

N-S St: Industrial Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-15

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	35	0	0.022	0	35	0	0.022	0	36	0	0.023	0	36	0	0.023
Nb Thru	0	1600	0.025 *	0	0	1600	0.031 *	0	0	1600	0.026 *	0	0	1600	0.032 *
Nb Right	5	0	-	9	14	0	-	0	5	0	-	9	14	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	565	1600	0.364	228	793	1600	0.507	6	594	1600	0.383	228	822	1600	0.525
Eb Right	18	0	-	0	18	0	-	0	19	0	-	0	19	0	-
Wb Left	6	1600	0.004	1	7	1600	0.004	0	6	1600	0.004	1	7	1600	0.005
Wb Thru	895	1600	0.559 *	31	926	1600	0.579 *	2	933	1600	0.583 *	31	964	1600	0.602 *
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.684				0.709				0.709				0.734
LOS			B				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Industrial Avenue @ Gardendale Street

N-S St: Industrial Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-15

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	25	0	0.016	0	25	0	0.016	0	26	0	0.016	0	26	0	0.016
Nb Thru	0	1600	0.021 *	0	0	1600	0.023 *	0	0	1600	0.022 *	0	0	1600	0.023 *
Nb Right	9	0	-	2	11	0	-	0	9	0	-	2	11	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	608	1600	0.398 *	38	646	1600	0.422 *	11	643	1600	0.421 *	38	681	1600	0.445 *
Eb Right	29	0	-	0	29	0	-	0	30	0	-	0	30	0	-
Wb Left	10	1600	0.006 *	7	17	1600	0.011 *	0	10	1600	0.007 *	7	17	1600	0.011 *
Wb Thru	461	1600	0.288	184	645	1600	0.403	9	488	1600	0.305	184	672	1600	0.420
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.526				0.555				0.550				0.579
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Gardendale Street

N-S St: Erickson Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-16

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	1600	0.000	36	36	1600	0.023	0	0	1600	0.000	36	36	1600	0.023
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	1600	0.000	33	33	1600	0.021	0	0	1600	0.000	33	33	1600	0.021
Eb Left	0	1600	0.000 *	237	237	1600	0.148 *	1	1	1600	0.001 *	237	238	1600	0.149 *
Eb Thru	572	1600	0.358	0	572	1600	0.358	5	600	1600	0.375	0	600	1600	0.375
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Thru	900	1600	0.563 *	0	900	1600	0.563 *	2	938	1600	0.586 *	0	938	1600	0.586 *
Wb Right	0	1600	0.000	265	265	1600	0.166	1	1	1600	0.001	265	266	1600	0.166
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.663				0.833				0.687				0.858
LOS			B				D				B				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Gardendale Street

N-S St: Erickson Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-16

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	1600	0.000	213	213	1600	0.133	5	5	1600	0.003	213	218	1600	0.136
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	1600	0.000	191	191	1600	0.119	4	4	1600	0.003	191	195	1600	0.122
Eb Left	0	1600	0.000	39	39	1600	0.024	8	8	1600	0.005	39	47	1600	0.029
Eb Thru	599	1600	0.374 *	0	599	1600	0.374 *	3	626	1600	0.391 *	0	626	1600	0.391 *
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	490	1600	0.306	0	490	1600	0.306	5	515	1600	0.322	0	515	1600	0.322
Wb Right	0	1600	0.000	44	44	1600	0.028	9	9	1600	0.006	44	53	1600	0.033
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.474				0.608				0.494				0.627
LOS			A				B				A				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Arizona Avenue @ Gardendale Street

N-S St: Arizona Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-17

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	19	0	0.012	9	28	0	0.018	0	20	0	0.012	9	29	0	0.018
Nb Thru	0	1600	0.029 *	0	0	1600	0.034 *	0	0	1600	0.030 *	0	0	1600	0.036 *
Nb Right	27	0	-	0	27	0	-	0	28	0	-	0	28	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	568	1600	0.360	35	603	1600	0.383	5	596	1600	0.378	35	631	1600	0.400
Eb Right	8	0	-	1	9	0	-	0	8	0	-	1	9	0	-
Wb Left	23	1600	0.014	0	23	1600	0.014	0	24	1600	0.015	0	24	1600	0.015
Wb Thru	881	1600	0.551 *	256	1137	1600	0.711 *	3	919	1600	0.575 *	256	1175	1600	0.735 *
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.679				0.845				0.704				0.870
LOS			B				D				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Arizona Avenue @ Gardendale Street

N-S St: Arizona Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-17

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	4	0	0.003	2	6	0	0.004	0	4	0	0.003	2	6	0	0.004
Nb Thru	0	1600	0.023 *	0	0	1600	0.024 *	0	0	1600	0.023 *	0	0	1600	0.025 *
Nb Right	32	0	-	0	32	0	-	0	33	0	-	0	33	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	596	1600	0.376 *	206	802	1600	0.509 *	8	628	1600	0.396 *	206	834	1600	0.529 *
Eb Right	6	0	-	7	13	0	-	0	6	0	-	7	13	0	-
Wb Left	16	1600	0.010 *	0	16	1600	0.010 *	0	17	1600	0.010 *	0	17	1600	0.010 *
Wb Thru	490	1600	0.306	42	532	1600	0.333	14	524	1600	0.327	42	566	1600	0.354
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.509				0.643				0.530				0.664
LOS			A				B				A				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Imperial Highway

N-S St: Paramount Boulevard
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-19

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	277	3200	0.087 *	0	277	3200	0.087 *	-80	208	3200	0.065	0	208	3200	0.065
Nb Thru	799	3200	0.250	0	799	3200	0.250	4	835	3200	0.261 *	0	835	3200	0.261 *
Nb Right	82	1600	0.051	0	82	1600	0.051	0	85	1600	0.053	0	85	1600	0.053
Sb Left	168	1600	0.105	0	168	1600	0.105	7	182	1600	0.114 *	0	182	1600	0.114 *
Sb Thru	898	3200	0.281 *	0	898	3200	0.281 *	5	939	3200	0.293	0	939	3200	0.293
Sb Right	238	1600	0.149	91	329	1600	0.206	3	251	1600	0.157	91	342	1600	0.213
Eb Left	275	3200	0.086 *	13	288	3200	0.090 *	6	292	3200	0.091 *	13	305	3200	0.095 *
Eb Thru	1216	4800	0.272	13	1229	4800	0.274	10	1275	4800	0.278	13	1288	4800	0.281
Eb Right	88	0	-	0	88	0	-	-31	61	0	-	0	61	0	-
Wb Left	109	1600	0.068	0	109	1600	0.068	0	113	1600	0.071	0	113	1600	0.071
Wb Thru	1179	4800	0.266 *	91	1270	4800	0.285 *	-23	1203	4800	0.273 *	91	1294	4800	0.292 *
Wb Right	100	0	-	0	100	0	-	3	107	0	-	0	107	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.820				0.843				0.839				0.862
LOS			D				D				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Imperial Highway

N-S St: Paramount Boulevard
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-19

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	230	3200	0.072	0	230	3200	0.072	-31	208	3200	0.065	0	208	3200	0.065
Nb Thru	761	3200	0.238 *	0	761	3200	0.238 *	6	797	3200	0.249 *	0	797	3200	0.249 *
Nb Right	80	1600	0.050	0	80	1600	0.050	0	83	1600	0.052	0	83	1600	0.052
Sb Left	206	1600	0.129 *	0	206	1600	0.129 *	6	220	1600	0.138 *	0	220	1600	0.138 *
Sb Thru	769	3200	0.240	0	769	3200	0.240	8	808	3200	0.252	0	808	3200	0.252
Sb Right	189	1600	0.118	15	204	1600	0.128	9	206	1600	0.128	15	221	1600	0.138
Eb Left	284	3200	0.089	73	357	3200	0.112	6	301	3200	0.094	73	374	3200	0.117
Eb Thru	1301	4800	0.298 *	73	1374	4800	0.313 *	-16	1337	4800	0.290 *	73	1410	4800	0.305 *
Eb Right	130	0	-	0	130	0	-	-82	53	0	-	0	53	0	-
Wb Left	126	1600	0.079 *	0	126	1600	0.079 *	0	131	1600	0.082 *	0	131	1600	0.082 *
Wb Thru	958	4800	0.228	15	973	4800	0.231	14	1010	4800	0.242	15	1025	4800	0.246
Wb Right	138	0	-	0	138	0	-	10	154	0	-	0	154	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.843				0.859				0.858				0.874
LOS			D				D				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Gardendale Street

N-S St: Paramount Boulevard
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-20

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	161	1600	0.101 *	137	298	1600	0.186 *	0	167	1600	0.105 *	137	304	1600	0.190 *
Nb Thru	942	3200	0.294	0	942	3200	0.294	-37	943	3200	0.295	0	943	3200	0.295
Nb Right	91	1600	0.057	0	91	1600	0.057	1	96	1600	0.060	0	96	1600	0.060
Sb Left	114	1600	0.071	0	114	1600	0.071	-15	104	1600	0.065	0	104	1600	0.065
Sb Thru	900	3200	0.281 *	0	900	3200	0.281 *	-11	925	3200	0.289 *	0	925	3200	0.289 *
Sb Right	91	1600	0.057	0	91	1600	0.057	0	95	1600	0.059	0	95	1600	0.059
Eb Left	80	1600	0.050	0	80	1600	0.050 *	0	83	1600	0.052	0	83	1600	0.052 *
Eb Thru	434	3200	0.158 *	16	450	3200	0.169	5	456	3200	0.166 *	16	472	3200	0.177
Eb Right	71	0	-	19	90	0	-	0	74	0	-	19	93	0	-
Wb Left	150	1600	0.094 *	0	150	1600	0.094	1	157	1600	0.098 *	0	157	1600	0.098
Wb Thru	638	3200	0.199	119	757	3200	0.237 *	2	666	3200	0.208	119	785	3200	0.245 *
Wb Right	163	1600	0.102	0	163	1600	0.102	-37	133	1600	0.083	0	133	1600	0.083
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.733				0.854				0.758				0.877
LOS			C				D				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Gardendale Street

N-S St: Paramount Boulevard
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-20

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	79	1600	0.049	23	102	1600	0.064	5	87	1600	0.054	23	110	1600	0.069
Nb Thru	1046	3200	0.327 *	0	1046	3200	0.327 *	-10	1078	3200	0.337 *	0	1078	3200	0.337 *
Nb Right	113	1600	0.071	0	113	1600	0.071	2	120	1600	0.075	0	120	1600	0.075
Sb Left	118	1600	0.074 *	0	118	1600	0.074 *	-38	85	1600	0.053 *	0	85	1600	0.053 *
Sb Thru	946	3200	0.296	0	946	3200	0.296	-35	949	3200	0.297	0	949	3200	0.297
Sb Right	85	1600	0.053	0	85	1600	0.053	0	88	1600	0.055	0	88	1600	0.055
Eb Left	87	1600	0.054	0	87	1600	0.054	0	90	1600	0.057	0	90	1600	0.057
Eb Thru	459	3200	0.169 *	95	554	3200	0.233 *	5	482	3200	0.179 *	95	577	3200	0.243 *
Eb Right	83	0	-	110	193	0	-	3	89	0	-	110	199	0	-
Wb Left	106	1600	0.066 *	0	106	1600	0.066 *	2	112	1600	0.070 *	0	112	1600	0.070 *
Wb Thru	374	3200	0.117	20	394	3200	0.123	9	398	3200	0.124	20	418	3200	0.131
Wb Right	127	1600	0.079	0	127	1600	0.079	-14	118	1600	0.074	0	118	1600	0.074
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.736				0.800				0.739				0.803
LOS			C				C				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Downey Avenue @ Gardendale Street

N-S St: Downey Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-23

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	138	1600	0.086	46	184	1600	0.115 *	-14	130	1600	0.081	46	176	1600	0.110 *
Nb Thru	400	3200	0.134 *	0	400	3200	0.134	1	417	3200	0.140 *	0	417	3200	0.140
Nb Right	30	0	-	0	30	0	-	0	31	0	-	0	31	0	-
Sb Left	143	1600	0.089 *	0	143	1600	0.089	0	149	1600	0.093 *	0	149	1600	0.093
Sb Thru	328	3200	0.132	0	328	3200	0.132 *	1	342	3200	0.137	0	342	3200	0.137 *
Sb Right	94	0	-	0	94	0	-	0	98	0	-	0	98	0	-
Eb Left	62	1600	0.039 *	0	62	1600	0.039 *	0	64	1600	0.040 *	0	64	1600	0.040 *
Eb Thru	516	3200	0.189	10	526	3200	0.194	-3	534	3200	0.194	10	544	3200	0.199
Eb Right	89	0	-	6	95	0	-	-6	87	0	-	6	93	0	-
Wb Left	48	1600	0.030	0	48	1600	0.030	0	50	1600	0.031	0	50	1600	0.031
Wb Thru	644	3200	0.229 *	73	717	3200	0.252 *	-20	650	3200	0.232 *	73	723	3200	0.254 *
Wb Right	88	0	-	0	88	0	-	0	92	0	-	0	92	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.591				0.637				0.605				0.642
LOS			A				B				B				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Downey Avenue @ Gardendale Street

N-S St: Downey Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-23

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	130	1600	0.081	8	138	1600	0.086	-4	131	1600	0.082	8	139	1600	0.087
Nb Thru	523	3200	0.178 *	0	523	3200	0.178 *	1	545	3200	0.186 *	0	545	3200	0.186 *
Nb Right	47	0	-	0	47	0	-	0	49	0	-	0	49	0	-
Sb Left	100	1600	0.063 *	0	100	1600	0.063 *	0	104	1600	0.065 *	0	104	1600	0.065 *
Sb Thru	349	3200	0.130	0	349	3200	0.130	1	364	3200	0.136	0	364	3200	0.136
Sb Right	67	0	-	0	67	0	-	0	70	0	-	0	70	0	-
Eb Left	75	1600	0.047 *	0	75	1600	0.047	0	78	1600	0.049 *	0	78	1600	0.049
Eb Thru	556	3200	0.197	59	615	3200	0.227 *	-17	561	3200	0.195	59	620	3200	0.225 *
Eb Right	73	0	-	37	110	0	-	-14	62	0	-	37	99	0	-
Wb Left	38	1600	0.024	0	38	1600	0.024 *	0	40	1600	0.025	0	40	1600	0.025 *
Wb Thru	462	3200	0.178 *	12	474	3200	0.181	1	481	3200	0.185 *	12	493	3200	0.189
Wb Right	106	0	-	0	106	0	-	0	110	0	-	0	110	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.565				0.591				0.584				0.600
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Brookshire Avenue-N. Somerset Ranch Road @ Gardendale Street

N-S St: Brookshire Avenue-N. Somerset Ranch Roa
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-24

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	1	0	0.001	0	1	0	0.001	0	1	0	0.001	0	1	0	0.001
Nb Thru	131	1600	0.091 *	0	131	1600	0.091 *	0	136	1600	0.095 *	0	136	1600	0.095 *
Nb Right	14	0	-	0	14	0	-	0	15	0	-	0	15	0	-
Sb Left	150	1600	0.094 *	0	150	1600	0.094 *	0	156	1600	0.098 *	0	156	1600	0.098 *
Sb Thru	137	1600	0.086	0	137	1600	0.086	0	142	1600	0.089	0	142	1600	0.089
Sb Right	87	1600	0.054	0	87	1600	0.054	0	90	1600	0.057	0	90	1600	0.057
Eb Left	76	1600	0.048 *	0	76	1600	0.048 *	0	79	1600	0.049 *	0	79	1600	0.049 *
Eb Thru	626	3200	0.196	10	636	3200	0.199	-3	648	3200	0.203	10	658	3200	0.206
Eb Right [3]	14	1000000	0.000	0	14	1000000	0.000	0	15	1000000	0.000	0	15	1000000	0.000
Wb Left	47	1600	0.029	0	47	1600	0.029	0	49	1600	0.031	0	49	1600	0.031
Wb Thru	687	3200	0.262 *	73	760	3200	0.284 *	-20	694	3200	0.266 *	73	767	3200	0.289 *
Wb Right	150	0	-	0	150	0	-	0	156	0	-	0	156	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.594				0.617				0.608				0.630
LOS			A				B				B				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 Free-flow right-turn

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INTERSECTION CAPACITY UTILIZATION

Brookshire Avenue-N. Somerset Ranch Road @ Gardendale Street

N-S St:	Brookshire Avenue-N. Somerset Ranch Roa	Peak hr:	PM	Date:	10/03/2018
E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-24				

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	2	0	0.001	0	2	0	0.001	0	2	0	0.001	0	2	0	0.001
Nb Thru	218	1600	0.152 *	0	218	1600	0.152 *	0	227	1600	0.158 *	0	227	1600	0.158 *
Nb Right	23	0	-	0	23	0	-	0	24	0	-	0	24	0	-
Sb Left	109	1600	0.068 *	0	109	1600	0.068 *	0	113	1600	0.071 *	0	113	1600	0.071 *
Sb Thru	115	1600	0.072	0	115	1600	0.072	0	120	1600	0.075	0	120	1600	0.075
Sb Right	68	1600	0.043	0	68	1600	0.043	0	71	1600	0.044	0	71	1600	0.044
Eb Left	77	1600	0.048 *	0	77	1600	0.048 *	0	80	1600	0.050 *	0	80	1600	0.050 *
Eb Thru	589	3200	0.184	59	648	3200	0.203	-17	596	3200	0.186	59	655	3200	0.205
Eb Right [3]	5	1000000	0.000	0	5	1000000	0.000	0	5	1000000	0.000	0	5	1000000	0.000
Wb Left	60	1600	0.038	0	60	1600	0.038	0	62	1600	0.039	0	62	1600	0.039
Wb Thru	564	3200	0.213 *	12	576	3200	0.217 *	1	588	3200	0.222 *	12	600	3200	0.225 *
Wb Right	117	0	-	0	117	0	-	0	122	0	-	0	122	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.581				0.585				0.600				0.604
LOS			A				A				A				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 Free-flow right-turn

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INTERSECTION CAPACITY UTILIZATION

Lakewood Boulevard @ Imperial Highway

N-S St: Lakewood Boulevard
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-25

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	385	3200	0.120	0	385	3200	0.120 *	0	400	3200	0.125	0	400	3200	0.125
Nb Thru	1014	4800	0.274 *	0	1014	4800	0.274	0	1055	4800	0.287 *	0	1055	4800	0.287 *
Nb Right	299	0	-	0	299	0	-	14	325	0	-	0	325	0	-
Sb Left	165	3200	0.052 *	0	165	3200	0.052	1	173	3200	0.054 *	0	173	3200	0.054 *
Sb Thru	828	4800	0.201	0	828	4800	0.207 *	0	861	4800	0.208	0	861	4800	0.213
Sb Right	137	0	-	27	164	0	-	-6	136	0	-	27	163	0	-
Eb Left	113	1600	0.071	4	117	1600	0.073	3	121	1600	0.075	4	125	1600	0.078
Eb Thru	1096	4800	0.228 *	9	1105	4800	0.230 *	20	1160	4800	0.242 *	9	1169	4800	0.244 *
Eb Right [3]	365	1000000	0.000	0	365	1000000	0.000	0	380	1000000	0.000	0	380	1000000	0.000
Wb Left	140	1600	0.088 *	0	140	1600	0.088 *	6	152	1600	0.095 *	0	152	1600	0.095 *
Wb Thru	800	4800	0.185	64	864	4800	0.199	-10	822	4800	0.191	64	886	4800	0.204
Wb Right	89	0	-	0	89	0	-	0	93	0	-	0	93	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.741				0.745				0.778				0.780
LOS			C				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 Free-flow right-turn

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INTERSECTION CAPACITY UTILIZATION

Lakewood Boulevard @ Imperial Highway

N-S St: Lakewood Boulevard
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-25

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	330	3200	0.103 *	0	330	3200	0.103 *	0	343	3200	0.107 *	0	343	3200	0.107 *
Nb Thru	965	4800	0.232	0	965	4800	0.232	0	1004	4800	0.244	0	1004	4800	0.244
Nb Right	149	0	-	0	149	0	-	13	168	0	-	0	168	0	-
Sb Left	81	3200	0.025	0	81	3200	0.025	-1	83	3200	0.026	0	83	3200	0.026
Sb Thru	834	4800	0.210 *	0	834	4800	0.211 *	0	867	4800	0.220 *	0	867	4800	0.221 *
Sb Right	172	0	-	5	177	0	-	8	187	0	-	5	192	0	-
Eb Left	197	1600	0.123	22	219	1600	0.137	-1	204	1600	0.127	22	226	1600	0.141
Eb Thru	962	4800	0.200 *	51	1013	4800	0.211 *	-2	998	4800	0.208 *	51	1049	4800	0.219 *
Eb Right [3]	360	1000000	0.000	0	360	1000000	0.000	0	374	1000000	0.000	0	374	1000000	0.000
Wb Left	304	1600	0.190 *	0	304	1600	0.190 *	20	336	1600	0.210 *	0	336	1600	0.210 *
Wb Thru	891	4800	0.204	11	902	4800	0.207	26	953	4800	0.218	11	964	4800	0.220
Wb Right	90	0	-	0	90	0	-	0	94	0	-	0	94	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.803				0.815				0.845				0.857
LOS			D				D				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 Free-flow right-turn

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INTERSECTION CAPACITY UTILIZATION

Lakewood Boulevard @ Gardendale Street

N-S St: Lakewood Boulevard
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-26

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF DOWNEY

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	215	1600	0.134 *	27	242	1600	0.151 *	-9	215	1600	0.134 *	27	242	1600	0.151 *
Nb Thru	795	3200	0.260	0	795	3200	0.260	14	841	3200	0.275	0	841	3200	0.275
Nb Right	38	0	-	0	38	0	-	0	40	0	-	0	40	0	-
Sb Left	71	1600	0.044	0	71	1600	0.044	0	74	1600	0.046	0	74	1600	0.046
Sb Thru	874	3200	0.273 *	0	874	3200	0.273 *	6	915	3200	0.286 *	0	915	3200	0.286 *
Sb Right	167	1600	0.104	0	167	1600	0.104	0	174	1600	0.109	0	174	1600	0.109
Eb Left	103	1600	0.064	0	103	1600	0.064	0	107	1600	0.067	0	107	1600	0.067
Eb Thru	539	3200	0.253 *	6	545	3200	0.256 *	0	561	3200	0.262 *	6	567	3200	0.265 *
Eb Right	269	0	-	4	273	0	-	-3	277	0	-	4	281	0	-
Wb Left	56	1600	0.035 *	0	56	1600	0.035 *	0	58	1600	0.036 *	0	58	1600	0.036 *
Wb Thru	536	3200	0.209	46	582	3200	0.223	-11	546	3200	0.214	46	592	3200	0.228
Wb Right	132	0	-	0	132	0	-	0	137	0	-	0	137	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.795				0.815				0.818				0.838
LOS			C				D				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Lakewood Boulevard @ Gardendale Street

N-S St: Lakewood Boulevard
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-26

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	179	1600	0.112 *	5	184	1600	0.115 *	-2	184	1600	0.115 *	5	189	1600	0.118 *
Nb Thru	813	3200	0.275	0	813	3200	0.275	13	859	3200	0.290	0	859	3200	0.290
Nb Right	68	0	-	0	68	0	-	0	71	0	-	0	71	0	-
Sb Left	111	1600	0.069	0	111	1600	0.069	0	115	1600	0.072	0	115	1600	0.072
Sb Thru	921	3200	0.288 *	0	921	3200	0.288 *	20	978	3200	0.306 *	0	978	3200	0.306 *
Sb Right	307	1600	0.192	0	307	1600	0.192	0	319	1600	0.200	0	319	1600	0.200
Eb Left	115	1600	0.072	0	115	1600	0.072	0	120	1600	0.075	0	120	1600	0.075
Eb Thru	553	3200	0.230 *	37	590	3200	0.248 *	-9	566	3200	0.234 *	37	603	3200	0.252 *
Eb Right	183	0	-	22	205	0	-	-8	182	0	-	22	204	0	-
Wb Left	59	1600	0.037 *	0	59	1600	0.037 *	0	61	1600	0.038 *	0	61	1600	0.038 *
Wb Thru	361	3200	0.146	8	369	3200	0.148	3	378	3200	0.152	8	386	3200	0.155
Wb Right	105	0	-	0	105	0	-	0	109	0	-	0	109	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.767				0.788				0.793				0.814
LOS			C				C				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Amigos Avenue

N-S St: Erickson Avenue
E-W St: Amigos Avenue
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-27

Peak hr: AM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2018
Projection Year: 2021

	2018 EXIST. TRAFFIC			2018 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	40	1600	0.025 *	13	53	1600	0.033 *	0	41	1600	0.026 *	13	54	1600	0.034 *
Nb Thru	36	3200	0.012	44	80	3200	0.026	0	37	3200	0.012	44	81	3200	0.026
Nb Right	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-
Sb Left	42	1600	0.026	0	42	1600	0.026	0	43	1600	0.027	0	43	1600	0.027
Sb Thru	79	3200	0.038 *	320	399	3200	0.138 *	1	82	3200	0.040 *	320	402	3200	0.140 *
Sb Right	44	0	-	0	44	0	-	0	45	0	-	0	45	0	-
Eb Left	8	1600	0.005	0	8	1600	0.005	0	8	1600	0.005	0	8	1600	0.005
Eb Thru	13	3200	0.013 *	0	13	3200	0.042 *	0	13	3200	0.014 *	0	13	3200	0.042 *
Eb Right	29	0	-	91	120	0	-	0	30	0	-	91	121	0	-
Wb Left	0	1600	0.000 *	0	0	1600	0.000 *	0	0	1600	0.000 *	0	0	1600	0.000 *
Wb Thru	7	3200	0.005	0	7	3200	0.005	0	7	3200	0.005	0	7	3200	0.005
Wb Right	9	0	-	0	9	0	-	0	9	0	-	0	9	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.177				0.313				0.179				0.316
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Amigos Avenue

N-S St: Erickson Avenue
E-W St: Amigos Avenue
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-27

Peak hr: PM
Annual Growth: 1%

CITY OF DOWNEY

Date: 10/03/2018
Date of Count: 2018
Projection Year: 2021

	2018 EXIST. TRAFFIC			2018 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	25	1600	0.016	73	98	1600	0.061	2	28	1600	0.017 *	73	101	1600	0.063
Nb Thru	72	3200	0.023 *	257	329	3200	0.103 *	6	80	3200	0.026	257	337	3200	0.106 *
Nb Right	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-
Sb Left	15	1600	0.009 *	0	15	1600	0.009 *	0	15	1600	0.010	0	15	1600	0.010 *
Sb Thru	40	3200	0.015	53	93	3200	0.032	11	52	3200	0.019 *	53	105	3200	0.035
Sb Right	8	0	-	0	8	0	-	0	8	0	-	0	8	0	-
Eb Left	19	1600	0.012	0	19	1600	0.012	0	20	1600	0.012	0	20	1600	0.012
Eb Thru	17	3200	0.020 *	0	17	3200	0.025 *	0	18	3200	0.022 *	0	18	3200	0.026 *
Eb Right	47	0	-	15	62	0	-	3	51	0	-	15	66	0	-
Wb Left	1	1600	0.001 *	0	1	1600	0.001 *	0	1	1600	0.001 *	0	1	1600	0.001 *
Wb Thru	8	3200	0.006	0	8	3200	0.006	0	8	3200	0.006	0	8	3200	0.006
Wb Right	12	0	-	0	12	0	-	0	12	0	-	0	12	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.153				0.238				0.158				0.243
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

APPENDIX C

ICU AND LEVELS OF SERVICE EXPLANATION
ICU DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS
CITY OF SOUTH GATE

INTERSECTION CAPACITY UTILIZATION (ICU) DESCRIPTION

Level of Service is a term used to describe prevailing conditions and their effect on traffic. Broadly interpreted, the Levels of Service concept denotes any one of a number of differing combinations of operating conditions which may occur as a roadway is accommodating various traffic volumes. Level of Service is a qualitative measure of the effect of such factors as travel speed, travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience.

Six Levels of Service, A through F, have been defined in the 1965 *Highway Capacity Manual*, published by the Transportation Research Board. Level of Service A describes a condition of free flow, with low traffic volumes and relatively high speeds, while Level of Service F describes forced traffic flow at low speeds with jammed conditions and queues which cannot clear during the green phases.

The Intersection Capacity Utilization (ICU) method of intersection capacity analysis has been used in our studies. It directly relates traffic demand and available capacity for key intersection movements, regardless of present signal timing, The capacity per hour of green time for each approach is calculated based on the methods of the *Highway Capacity Manual*. The proportion of total signal time needed by each key movement is determined and compared to the total time available (100 percent of the hour). The result of summing the requirements of the conflicting key movements plus an allowance for clearance times is expressed as a decimal fraction. Conflicting key traffic movements are those opposing movements whose combined green time requirements are greatest.

The resulting ICU represents the proportion of the total hour required to accommodate intersection demand volumes if the key conflicting traffic movements are operating at capacity. Other movements may be operating near capacity, or may be operating at significantly better levels. The ICU may be translated to a Level of Service as tabulated below.

The Levels of Service (abbreviated from the *Highway Capacity Manual*) are listed here with their corresponding ICU and Load Factor equivalents. Load Factor is that proportion of the signal cycles during the peak hour which are fully loaded; i.e. when all of the vehicles waiting at the beginning of green are not able to clear on that green phase.

Intersection Capacity Utilization Characteristics

Level of Service	Load Factor	Equivalent ICU
A	0.0	0.00 - 0.60
B	0.0 - 0.1	0.61 - 0.70
C	0.1 - 0.3	0.71 - 0.80
D	0.3 - 0.7	0.81 - 0.90
E	0.7 - 1.0	0.91 - 1.00
F	Not Applicable	Not Applicable

SERVICE LEVEL A
There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B
This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

SERVICE LEVEL C
At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more than one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

SERVICE LEVEL D
This level encompasses a zone of increasing restriction approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak hour, but enough cycles with lower demand occur to permit periodic clearance of queues, thus preventing excessive backups. Drivers frequently have to wait through more than one red signal. This level is the lower limit of acceptable operation to most drivers.

SERVICE LEVEL E
This represents near capacity and capacity operation. At capacity (ICU = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F
Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

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INTERSECTION CAPACITY UTILIZATION

Wright Road @ I-710 Southbound Off-Ramp-Abbott Road

N-S St: Wright Road
E-W St: I-710 Southbound Off-Ramp-Abbott Road
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-2

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	338	1600	0.211 *	0	338	1600	0.211 *	0	352	1600	0.220 *	0	352	1600	0.220 *
Nb Thru	519	3200	0.162	0	519	3200	0.162	5	545	3200	0.170	0	545	3200	0.170
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	452	3200	0.146 *	0	452	3200	0.146 *	2	472	3200	0.152 *	0	472	3200	0.152 *
Sb Right	15	0	-	0	15	0	-	0	16	0	-	0	16	0	-
Eb Left	9	1600	0.006	0	9	1600	0.006	0	9	1600	0.006	0	9	1600	0.006
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right [3]	671	1600	0.208 *	0	671	1600	0.208 *	0	698	1600	0.216 *	0	698	1600	0.216 *
Wb Left	52	0	0.016 *	46	98	0	0.031 *	-14	40	0	0.013 *	46	86	0	0.027 *
Wb Thru	506	3200	0.185	0	506	3200	0.200	0	526	3200	0.188	0	526	3200	0.203
Wb Right	35	0	-	0	35	0	-	0	36	0	-	0	36	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.682				0.696				0.701				0.715
LOS			B				B				C				C

* *Key conflicting movement as a part of ICU*
1 *Counts conducted by:* National Data & Surveying Services
2 *Capacity expressed in veh/hour of green*
3 *The eastbound right-turn lane has an overlapping phase with northbound left-turn phase.*

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INTERSECTION CAPACITY UTILIZATION

Wright Road @ I-710 Southbound Off-Ramp-Abbott Road

N-S St: Wright Road
E-W St: I-710 Southbound Off-Ramp-Abbott Road
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-2

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	440	1600	0.275 *	0	440	1600	0.275 *	0	458	1600	0.286 *	0	458	1600	0.286 *
Nb Thru	680	3200	0.213	0	680	3200	0.213	3	710	3200	0.222	0	710	3200	0.222
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	474	3200	0.151 *	0	474	3200	0.151 *	5	498	3200	0.159 *	0	498	3200	0.159 *
Sb Right	9	0	-	0	9	0	-	0	9	0	-	0	9	0	-
Eb Left	17	1600	0.011 *	0	17	1600	0.011 *	0	18	1600	0.011 *	0	18	1600	0.011 *
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right [3]	522	1600	0.051	0	522	1600	0.051	0	543	1600	0.053	0	543	1600	0.053
Wb Left	55	0	0.017	8	63	0	0.020	-4	53	0	0.017	8	61	0	0.019
Wb Thru	397	3200	0.158 *	0	397	3200	0.160 *	0	413	3200	0.163 *	0	413	3200	0.165 *
Wb Right	53	0	-	0	53	0	-	0	55	0	-	0	55	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.694				0.697				0.718				0.721
LOS			B				B				C				C

* *Key conflicting movement as a part of ICU*
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The eastbound right-turn lane has an overlapping phase with northbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Wright Road @ Imperial Highway

N-S St: Wright Road
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-3

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC				2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT				2021 W/REGIONAL MITIGATION			
	1	2	V/C		Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio		Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	14	0	0.004		0	14	0	0.004	0	15	0	0.005	0	15	0	0.005	0	15	0	0.005
Nb Thru	53	3200	0.175	*	0	53	3200	0.175	* 0	55	3200	0.182	* 0	55	3200	0.182	* 0	55	3200	0.182 *
Nb Right	493	0	-		0	493	0	-	0	513	0	-	0	513	0	-	0	513	0	-
Sb Left	1162	3200	0.363	*	46	1208	3200	0.378	* -12	1196	3200	0.374	* 46	1242	3200	0.388	* 0	1242	3200	0.388 *
Sb Thru	36	0	0.000		0	36	0	0.000	0	37	0	0.000	0	37	0	0.000	0	37	0	0.000
Sb Right	46	1600	0.029		0	46	1600	0.029	0	48	1600	0.030	0	48	1600	0.030	0	48	1600	0.030
Eb Left	7	1600	0.004		0	7	1600	0.004	0	7	1600	0.005	0	7	1600	0.005	0	7	1600	0.005 *
Eb Thru	1302	3200	0.410	*	91	1393	3200	0.439	* -26	1328	3200	0.419	* 91	1419	3200	0.447	* 0	1419	4800	0.298
Eb Right	11	0	-		0	11	0	-	0	11	0	-	0	11	0	-	0	11	0	-
Wb Left	0	0	0.000	*	0	0	0	0.000	* 0	0	0	0.000	* 0	0	0	0.000	* 0	0	0	0.000
Wb Thru	1005	3200	0.314		13	1018	3200	0.318	-6	1039	3200	0.325	13	1052	3200	0.329	0	1052	3200	0.329 *
Wb Right [3]	776	1600	0.122		0	776	1600	0.108	5	812	1600	0.134	0	812	1600	0.119	0	812	1600	0.119
Yellow Allowance:			0.100	*				0.100	*			0.100	*			0.100	*			0.100 *
ICU			1.048					1.091				1.075				1.117				1.004
LOS			F					F				F				F				F

02:54 PM

** Key conflicting movement as a part of ICU*
1 Counts conducted by National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The westbound right-turn lane has an overlapping phase with southbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Wright Road @ Imperial Highway

N-S St: Wright Road
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-3

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT				2021 W/REGIONAL MITIGATION			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	28	0	0.009	0	28	0	0.009	0	29	0	0.009	0	29	0	0.009	0	29	0	0.009
Nb Thru	55	3200	0.118 *	0	55	3200	0.118 *	0	57	3200	0.123 *	0	57	3200	0.123 *	0	57	3200	0.123 *
Nb Right	296	0	-	0	296	0	-	0	308	0	-	0	308	0	-	0	308	0	-
Sb Left	957	3200	0.299 *	8	965	3200	0.302 *	1	996	3200	0.311 *	8	1004	3200	0.314 *	0	1004	3200	0.314 *
Sb Thru	93	0	0.000	0	93	0	0.000	0	97	0	0.000	0	97	0	0.000	0	97	0	0.000
Sb Right	21	1600	0.013	0	21	1600	0.013	0	22	1600	0.014	0	22	1600	0.014	0	22	1600	0.014
Eb Left	10	1600	0.006	0	10	1600	0.006	0	10	1600	0.007	0	10	1600	0.007	0	10	1600	0.007 *
Eb Thru	1226	3200	0.387 *	15	1241	3200	0.392 *	-4	1271	3200	0.401 *	15	1286	3200	0.406 *	0	1286	4800	0.271
Eb Right	12	0	-	0	12	0	-	0	12	0	-	0	12	0	-	0	12	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000
Wb Thru	998	3200	0.312	73	1071	3200	0.335	-24	1014	3200	0.317	73	1087	3200	0.340	0	1087	3200	0.340
Wb Right [3]	1060	1600	0.363	0	1060	1600	0.361	3	1105	1600	0.380	0	1105	1600	0.377	0	1105	1600	0.377 *
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.904				0.912				0.936				0.943				0.921
LOS			E				E				E				E				E

02:54 PM

** Key conflicting movement as a part of ICU*
1 Counts conducted by National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The westbound right-turn lane has an overlapping phase with southbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Ruchti Road-Garfield Place @ Imperial Highway

N-S St: Ruchti Road-Garfield Place
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-4

Peak hr: AM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	600	3200	0.188 *	11	611	3200	0.191 *	0	624	3200	0.195 *	11	635	3200	0.198 *
Nb Thru	31	1600	0.023	0	31	1600	0.023	0	32	1600	0.023	0	32	1600	0.023
Nb Right	5	0	-	0	5	0	-	0	5	0	-	0	5	0	-
Sb Left	16	0	0.010	0	16	0	0.010	0	17	0	0.010	0	17	0	0.010
Sb Thru	14	1600	0.028 *	0	14	1600	0.028 *	0	15	1600	0.029 *	0	15	1600	0.029 *
Sb Right	14	0	-	0	14	0	-	0	15	0	-	0	15	0	-
Eb Left	32	1600	0.020	0	32	1600	0.020	0	33	1600	0.021	0	33	1600	0.021
Eb Thru	1816	4800	0.481 *	183	1999	4800	0.536 *	-48	1841	4800	0.490 *	183	2024	4800	0.545 *
Eb Right	493	0	-	82	575	0	-	0	513	0	-	82	595	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	1706	4800	0.362	25	1731	4800	0.367	-5	1769	4800	0.375	25	1794	4800	0.381
Wb Right	31	0	-	0	31	0	-	0	32	0	-	0	32	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.796				0.855				0.814				0.873
LOS			C				D				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Ruchti Road-Garfield Place @ Imperial Highway

N-S St: Ruchti Road-Garfield Place
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-4

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	421	3200	0.132 *	66	487	3200	0.152 *	2	440	3200	0.137 *	66	506	3200	0.158 *
Nb Thru	11	1600	0.022	0	11	1600	0.022	0	11	1600	0.023	0	11	1600	0.023
Nb Right	24	0	-	0	24	0	-	0	25	0	-	0	25	0	-
Sb Left	35	0	0.022	0	35	0	0.022	0	36	0	0.023	0	36	0	0.023
Sb Thru	23	1600	0.061 *	0	23	1600	0.061 *	0	24	1600	0.064 *	0	24	1600	0.064 *
Sb Right	40	0	-	0	40	0	-	0	42	0	-	0	42	0	-
Eb Left	22	1600	0.014	0	22	1600	0.014	0	23	1600	0.014	0	23	1600	0.014
Eb Thru	1646	4800	0.440 *	30	1676	4800	0.449 *	10	1722	4800	0.460 *	30	1752	4800	0.469 *
Eb Right	464	0	-	14	478	0	-	3	486	0	-	14	500	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	1591	4800	0.338	147	1738	4800	0.369	-40	1615	4800	0.343	147	1762	4800	0.374
Wb Right	31	0	-	0	31	0	-	0	32	0	-	0	32	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.732				0.762				0.761				0.791
LOS			C				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Imperial Highway

N-S St: Garfield Avenue
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-5

Peak hr: AM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	62	1600	0.039	0	62	1600	0.039	7	71	1600	0.045	0	71	1600	0.045
Nb Thru	826	3200	0.310 *	0	826	3200	0.310 *	23	882	3200	0.320 *	0	882	3200	0.320 *
Nb Right	166	0	-	0	166	0	-	-32	141	0	-	0	141	0	-
Sb Left	116	3200	0.036 *	0	116	3200	0.036 *	1	122	3200	0.038 *	0	122	3200	0.038 *
Sb Thru	401	3200	0.125	0	401	3200	0.125	6	423	3200	0.132	0	423	3200	0.132
Sb Right	325	1600	0.203	0	325	1600	0.203	2	340	1600	0.213	0	340	1600	0.213
Eb Left	186	1600	0.116 *	0	186	1600	0.116	5	198	1600	0.124 *	0	198	1600	0.124 *
Eb Thru	1568	4800	0.333	183	1751	4800	0.371 *	-64	1567	4800	0.334	183	1750	4800	0.372
Eb Right	29	0	-	0	29	0	-	7	37	0	-	0	37	0	-
Wb Left	150	1600	0.094	0	150	1600	0.094 *	-14	142	1600	0.089	0	142	1600	0.089
Wb Thru	1433	4800	0.336 *	25	1458	4800	0.341	-25	1465	4800	0.344 *	25	1490	4800	0.350 *
Wb Right	181	0	-	0	181	0	-	0	188	0	-	0	188	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.899				0.911				0.926				0.931
LOS			D				E				E				E

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Imperial Highway

N-S St: Garfield Avenue
E-W St: Imperial Highway
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-5

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	74	1600	0.046	0	74	1600	0.046	9	86	1600	0.054	0	86	1600	0.054
Nb Thru	485	3200	0.215 *	0	485	3200	0.215 *	14	518	3200	0.224 *	0	518	3200	0.224 *
Nb Right	202	0	-	0	202	0	-	-11	199	0	-	0	199	0	-
Sb Left	140	3200	0.044 *	0	140	3200	0.044 *	-1	145	3200	0.045 *	0	145	3200	0.045 *
Sb Thru	487	3200	0.152	0	487	3200	0.152	22	528	3200	0.165	0	528	3200	0.165
Sb Right	299	1600	0.187	0	299	1600	0.187	5	316	1600	0.197	0	316	1600	0.197
Eb Left	199	1600	0.124 *	0	199	1600	0.124 *	3	210	1600	0.131 *	0	210	1600	0.131 *
Eb Thru	1465	4800	0.309	30	1495	4800	0.315	-13	1511	4800	0.321	30	1541	4800	0.327
Eb Right	19	0	-	0	19	0	-	9	29	0	-	0	29	0	-
Wb Left	138	1600	0.086	0	138	1600	0.086	-33	111	1600	0.069	0	111	1600	0.069
Wb Thru	1254	4800	0.284 *	147	1401	4800	0.314 *	-60	1244	4800	0.282 *	147	1391	4800	0.313 *
Wb Right	107	0	-	0	107	0	-	0	111	0	-	0	111	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.766				0.797				0.783				0.814
LOS			C				C				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Gardendale Street

N-S St: Garfield Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-6

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	5	1600	0.003	0	5	1600	0.003	0	5	1600	0.003	0	5	1600	0.003
Nb Thru	921	3200	0.297 *	0	921	3200	0.340 *	-40	918	3200	0.297 *	0	918	3200	0.339 *
Nb Right	30	0	-	137	167	0	-	0	31	0	-	137	168	0	-
Sb Left	415	3200	0.130 *	82	497	3200	0.155 *	5	437	3200	0.136 *	82	519	3200	0.162 *
Sb Thru	611	3200	0.201	0	611	3200	0.201	-2	633	3200	0.209	0	633	3200	0.209
Sb Right	33	0	-	0	33	0	-	0	34	0	-	0	34	0	-
Eb Left	73	1600	0.046 *	0	73	1600	0.046 *	0	76	1600	0.047 *	0	76	1600	0.047 *
Eb Thru	59	1600	0.044	0	59	1600	0.044	0	61	1600	0.046	0	61	1600	0.046
Eb Right	11	0	-	0	11	0	-	0	11	0	-	0	11	0	-
Wb Left	121	0	0.076	19	140	0	0.088	0	126	0	0.079	19	145	0	0.091
Wb Thru	34	1600	0.097	0	34	1600	0.109 *	0	35	1600	0.101	0	35	1600	0.113 *
Wb Right [3]	736	3200	0.100 *	11	747	3200	0.078	2	767	3200	0.103 *	11	778	3200	0.081
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.673				0.750				0.684				0.762
LOS			B				C				B				C

** Key conflicting movement as a part of ICU*
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The westbound right-turn lane has an overlapping phase with southbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Gardendale Street

N-S St: Garfield Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-6

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC				2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C		Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio		Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	14	1600	0.009		0	14	1600	0.009	0	15	1600	0.009	0	15	1600	0.009
Nb Thru	641	3200	0.216	*	0	641	3200	0.223	* -1	666	3200	0.226	* 0	666	3200	0.233 *
Nb Right	51	0	-		23	74	0	-	5	58	0	-	23	81	0	-
Sb Left	484	3200	0.151	*	14	498	3200	0.156	* 6	509	3200	0.159	* 14	523	3200	0.164 *
Sb Thru	699	3200	0.237		0	699	3200	0.237	-36	691	3200	0.235	0	691	3200	0.235
Sb Right	60	0	-		0	60	0	-	0	62	0	-	0	62	0	-
Eb Left	41	1600	0.026	*	0	41	1600	0.026	* 0	43	1600	0.027	* 0	43	1600	0.027 *
Eb Thru	26	1600	0.022		0	26	1600	0.022	0	27	1600	0.023	0	27	1600	0.023
Eb Right	9	0	-		0	9	0	-	0	9	0	-	0	9	0	-
Wb Left	83	0	0.052		110	193	0	0.121	3	89	0	0.056	110	199	0	0.125
Wb Thru	37	1600	0.075	*	0	37	1600	0.144	* 0	38	1600	0.080	* 0	38	1600	0.149 *
Wb Right [3]	347	3200	0.000		66	413	3200	0.000	7	368	3200	0.000	66	434	3200	0.000
Yellow Allowance:			0.100	*				0.100	*			0.100	*			0.100 *
ICU			0.568					0.648				0.592				0.672
LOS			A					B				A				B

* *Key conflicting movement as a part of ICU*
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green
3 The westbound right-turn lane has an overlapping phase with southbound left-turn phase.

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Monroe Avenue

N-S St: Garfield Avenue
E-W St: Monroe Avenue
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-7

Peak hr: AM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	15	0	0.005	0	15	0	0.005	0	16	0	0.005	0	16	0	0.005
Nb Thru	947	3200	0.314 *	137	1084	3200	0.359 *	-37	948	3200	0.315 *	137	1085	3200	0.360 *
Nb Right	42	0	-	9	51	0	-	0	44	0	-	9	53	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	732	3200	0.232	19	751	3200	0.238	-1	760	3200	0.241	19	779	3200	0.247
Sb Right	11	0	-	0	11	0	-	0	11	0	-	0	11	0	-
Eb Left	6	0	0.004	0	6	0	0.004	0	6	0	0.004	0	6	0	0.004
Eb Thru	13	1600	0.026 *	0	13	1600	0.026 *	0	14	1600	0.027 *	0	14	1600	0.027 *
Eb Right	23	0	-	0	23	0	-	0	24	0	-	0	24	0	-
Wb Left	5	0	0.003 *	1	6	0	0.004 *	0	5	0	0.003 *	1	6	0	0.004 *
Wb Thru	3	1600	0.006	0	3	1600	0.007	0	3	1600	0.007	0	3	1600	0.007
Wb Right	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.443				0.489				0.445				0.492
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ Monroe Avenue

N-S St: Garfield Avenue
E-W St: Monroe Avenue
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-7

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	41	0	0.013 *	0	41	0	0.013 *	0	43	0	0.013 *	0	43	0	0.013 *
Nb Thru	693	3200	0.242	23	716	3200	0.250	5	726	3200	0.253	23	749	3200	0.261
Nb Right	41	0	-	2	43	0	-	0	43	0	-	2	45	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	717	3200	0.246 *	110	827	3200	0.281 *	-30	716	3200	0.247 *	110	826	3200	0.281 *
Sb Right	71	0	-	0	71	0	-	0	74	0	-	0	74	0	-
Eb Left	20	0	0.013	0	20	0	0.013	0	21	0	0.013	0	21	0	0.013
Eb Thru	8	1600	0.033 *	0	8	1600	0.033 *	0	8	1600	0.034 *	0	8	1600	0.034 *
Eb Right	24	0	-	0	24	0	-	0	25	0	-	0	25	0	-
Wb Left	6	0	0.004 *	7	13	0	0.008 *	0	6	0	0.004 *	7	13	0	0.008 *
Wb Thru	2	1600	0.006	0	2	1600	0.011	0	2	1600	0.007	0	2	1600	0.011
Wb Right	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.395				0.434				0.398				0.437
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Monroe Avenue @ Gardendale Street

N-S St: Monroe Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-8

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	5	0	0.003	0	5	0	0.003	0	5	0	0.003	0	5	0	0.003
Nb Thru	0	1600	0.040 *	0	0	1600	0.046 *	0	0	1600	0.042 *	0	0	1600	0.047 *
Nb Right	59	0	-	9	68	0	-	0	61	0	-	9	70	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	509	1600	0.319	219	728	1600	0.456	5	534	1600	0.335	219	753	1600	0.472
Eb Right	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-
Wb Left	12	1600	0.008	1	13	1600	0.008	0	12	1600	0.008	1	13	1600	0.008
Wb Thru	923	1600	0.577 *	30	953	1600	0.596 *	2	962	1600	0.601 *	30	992	1600	0.620 *
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.717				0.741				0.743				0.767
LOS			C				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Monroe Avenue @ Gardendale Street

N-S St: Monroe Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-8

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	1	0	0.001	0	1	0	0.001	0	1	0	0.001	0	1	0	0.001
Nb Thru	0	1600	0.034 *	0	0	1600	0.036 *	0	0	1600	0.036 *	0	0	1600	0.037 *
Nb Right	54	0	-	2	56	0	-	0	56	0	-	2	58	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000	0	0	0	0.000 *	0	0	0	0.000	0	0	0	0.000
Eb Thru	575	1600	0.359 *	36	611	1600	0.382	11	609	1600	0.381 *	36	645	1600	0.403 *
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	13	1600	0.008 *	7	20	1600	0.013	0	14	1600	0.008 *	7	21	1600	0.013 *
Wb Thru	456	1600	0.285	176	632	1600	0.395 *	9	483	1600	0.302	176	659	1600	0.412
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.502				0.531				0.525				0.553
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Gafield Avenue @ Main Street

N-S St: Gafield Avenue
E-W St: Main Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-9

Peak hr: AM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	50	1600	0.031	0	50	1600	0.031	0	52	1600	0.033	0	52	1600	0.033
Nb Thru	935	3200	0.316 *	146	1081	3200	0.367 *	-37	935	3200	0.317 *	146	1081	3200	0.368 *
Nb Right	75	0	-	18	93	0	-	0	78	0	-	18	96	0	-
Sb Left	62	1600	0.039 *	0	62	1600	0.039 *	0	64	1600	0.040 *	0	64	1600	0.040 *
Sb Thru	653	3200	0.214	20	673	3200	0.220	0	679	3200	0.223	20	699	3200	0.229
Sb Right	32	0	-	0	32	0	-	0	33	0	-	0	33	0	-
Eb Left	25	0	0.016 *	0	25	0	0.016 *	0	26	0	0.016 *	0	26	0	0.016 *
Eb Thru	77	1600	0.079	0	77	1600	0.079	0	80	1600	0.082	0	80	1600	0.082
Eb Right	24	0	-	0	24	0	-	0	25	0	-	0	25	0	-
Wb Left	84	0	0.053	3	87	0	0.054	0	87	0	0.055	3	90	0	0.056
Wb Thru	159	1600	0.186 *	0	159	1600	0.188 *	0	165	1600	0.194 *	0	165	1600	0.196 *
Wb Right	55	0	-	0	55	0	-	0	57	0	-	0	57	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.656				0.709				0.667				0.720
LOS			B				C				B				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Gafield Avenue @ Main Street

N-S St: Gafield Avenue
E-W St: Main Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-9

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	24	1600	0.015	0	24	1600	0.015	0	25	1600	0.016	0	25	1600	0.016
Nb Thru	724	3200	0.253 *	24	748	3200	0.261 *	5	758	3200	0.265 *	24	782	3200	0.273 *
Nb Right	85	0	-	3	88	0	-	1	89	0	-	3	92	0	-
Sb Left	62	1600	0.039 *	0	62	1600	0.039 *	0	64	1600	0.040 *	0	64	1600	0.040 *
Sb Thru	628	3200	0.205	117	745	3200	0.242	-30	623	3200	0.204	117	740	3200	0.240
Sb Right	28	0	-	0	28	0	-	0	29	0	-	0	29	0	-
Eb Left	18	0	0.011 *	0	18	0	0.011 *	0	19	0	0.012 *	0	19	0	0.012 *
Eb Thru	36	1600	0.041	0	36	1600	0.041	0	37	1600	0.043	0	37	1600	0.043
Eb Right	12	0	-	0	12	0	-	0	12	0	-	0	12	0	-
Wb Left	66	0	0.041	15	81	0	0.051	0	69	0	0.043	15	84	0	0.052
Wb Thru	38	1600	0.109 *	0	38	1600	0.118 *	0	40	1600	0.113 *	0	40	1600	0.122 *
Wb Right	70	0	-	0	70	0	-	0	73	0	-	0	73	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.512				0.529				0.530				0.548
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Old River School Road @ Imperial Highway

N-S St: Old River School Road
E-W St: Imperial Highway
Project: 5-17-0354-1/ Rancho Los Amigos South Campus
File: ICU-12

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	12	1600	0.008 *	6	18	1600	0.011 *	0	12	1600	0.008 *	6	18	1600	0.012 *
Nb Thru	91	3200	0.033	6	97	3200	0.034	0	95	3200	0.034	6	101	3200	0.036
Nb Right	13	0	-	0	13	0	-	0	14	0	-	0	14	0	-
Sb Left	317	1600	0.198	0	317	1600	0.198	1	331	1600	0.207	0	331	1600	0.207
Sb Thru	49	1600	0.031	46	95	1600	0.059	0	51	1600	0.032	46	97	1600	0.061
Sb Right	458	1600	0.286 *	0	458	1600	0.286 *	0	476	1600	0.298 *	0	476	1600	0.298 *
Eb Left	267	1600	0.167 *	0	267	1600	0.167 *	0	278	1600	0.174 *	0	278	1600	0.174 *
Eb Thru	1486	4800	0.310	137	1623	4800	0.338	-94	1451	4800	0.302	137	1588	4800	0.331
Eb Right	167	1600	0.104	46	213	1600	0.133	0	174	1600	0.109	46	220	1600	0.137
Wb Left	9	1600	0.006	0	9	1600	0.006	0	9	1600	0.006	0	9	1600	0.006
Wb Thru	1195	4800	0.323 *	19	1214	4800	0.326 *	-39	1204	4800	0.327 *	19	1223	4800	0.331 *
Wb Right	353	0	-	0	353	0	-	0	367	0	-	0	367	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.883				0.891				0.906				0.914
LOS			D				D				E				E

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Old River School Road @ Imperial Highway

N-S St: Old River School Road
E-W St: Imperial Highway
Project: 5-17-0354-1/ Rancho Los Amigos South Campus
File: ICU-12

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	83	1600	0.052 *	37	120	1600	0.075 *	1	87	1600	0.055 *	37	124	1600	0.078 *
Nb Thru	46	3200	0.021	37	83	3200	0.033	2	50	3200	0.023	37	87	3200	0.034
Nb Right	22	0	-	0	22	0	-	0	23	0	-	0	23	0	-
Sb Left	288	1600	0.180	0	288	1600	0.180	-1	299	1600	0.187	0	299	1600	0.187
Sb Thru	34	1600	0.021	8	42	1600	0.026	1	36	1600	0.023	8	44	1600	0.028
Sb Right	329	1600	0.206 *	0	329	1600	0.206 *	0	342	1600	0.214 *	0	342	1600	0.214 *
Eb Left	250	1600	0.156 *	0	250	1600	0.156 *	0	260	1600	0.163 *	0	260	1600	0.163 *
Eb Thru	1421	4800	0.296	23	1444	4800	0.301	-25	1453	4800	0.303	23	1476	4800	0.307
Eb Right	43	1600	0.027	8	51	1600	0.032	2	47	1600	0.029	8	55	1600	0.034
Wb Left	3	1600	0.002	0	3	1600	0.002	0	3	1600	0.002	0	3	1600	0.002
Wb Thru	1110	4800	0.275 *	110	1220	4800	0.298 *	-93	1061	4800	0.267 *	110	1171	4800	0.290 *
Wb Right	210	0	-	0	210	0	-	0	218	0	-	0	218	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.789				0.835				0.798				0.844
LOS			C				D				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Industrial Avenue @ Gardendale Street

N-S St: Industrial Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-15

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	35	0	0.022	0	35	0	0.022	0	36	0	0.023	0	36	0	0.023
Nb Thru	0	1600	0.025 *	0	0	1600	0.031 *	0	0	1600	0.026 *	0	0	1600	0.032 *
Nb Right	5	0	-	9	14	0	-	0	5	0	-	9	14	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	565	1600	0.364	228	793	1600	0.507	6	594	1600	0.383	228	822	1600	0.525
Eb Right	18	0	-	0	18	0	-	0	19	0	-	0	19	0	-
Wb Left	6	1600	0.004	1	7	1600	0.004	0	6	1600	0.004	1	7	1600	0.005
Wb Thru	895	1600	0.559 *	31	926	1600	0.579 *	2	933	1600	0.583 *	31	964	1600	0.602 *
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.684				0.709				0.709				0.734
LOS			B				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Industrial Avenue @ Gardendale Street

N-S St: Industrial Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-15

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	25	0	0.016	0	25	0	0.016	0	26	0	0.016	0	26	0	0.016
Nb Thru	0	1600	0.021 *	0	0	1600	0.023 *	0	0	1600	0.022 *	0	0	1600	0.023 *
Nb Right	9	0	-	2	11	0	-	0	9	0	-	2	11	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	608	1600	0.398 *	38	646	1600	0.422 *	11	643	1600	0.421 *	38	681	1600	0.445 *
Eb Right	29	0	-	0	29	0	-	0	30	0	-	0	30	0	-
Wb Left	10	1600	0.006 *	7	17	1600	0.011 *	0	10	1600	0.007 *	7	17	1600	0.011 *
Wb Thru	461	1600	0.288	184	645	1600	0.403	9	488	1600	0.305	184	672	1600	0.420
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.526				0.555				0.550				0.579
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Gardendale Street

N-S St: Erickson Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-16

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	1600	0.000	36	36	1600	0.023	0	0	1600	0.000	36	36	1600	0.023
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	1600	0.000	33	33	1600	0.021	0	0	1600	0.000	33	33	1600	0.021
Eb Left	0	1600	0.000 *	237	237	1600	0.148 *	1	1	1600	0.001 *	237	238	1600	0.149 *
Eb Thru	572	1600	0.358	0	572	1600	0.358	5	600	1600	0.375	0	600	1600	0.375
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Thru	900	1600	0.563 *	0	900	1600	0.563 *	2	938	1600	0.586 *	0	938	1600	0.586 *
Wb Right	0	1600	0.000	265	265	1600	0.166	1	1	1600	0.001	265	266	1600	0.166
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.663				0.833				0.687				0.858
LOS			B				D				B				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Gardendale Street

N-S St: Erickson Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-16

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	1600	0.000	213	213	1600	0.133	5	5	1600	0.003	213	218	1600	0.136
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	1600	0.000	191	191	1600	0.119	4	4	1600	0.003	191	195	1600	0.122
Eb Left	0	1600	0.000	39	39	1600	0.024	8	8	1600	0.005	39	47	1600	0.029
Eb Thru	599	1600	0.374 *	0	599	1600	0.374 *	3	626	1600	0.391 *	0	626	1600	0.391 *
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	490	1600	0.306	0	490	1600	0.306	5	515	1600	0.322	0	515	1600	0.322
Wb Right	0	1600	0.000	44	44	1600	0.028	9	9	1600	0.006	44	53	1600	0.033
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.474				0.608				0.494				0.627
LOS			A				B				A				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Arizona Avenue @ Gardendale Street

N-S St: Arizona Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-17

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	19	0	0.012	9	28	0	0.018	0	20	0	0.012	9	29	0	0.018
Nb Thru	0	1600	0.029 *	0	0	1600	0.034 *	0	0	1600	0.030 *	0	0	1600	0.036 *
Nb Right	27	0	-	0	27	0	-	0	28	0	-	0	28	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	568	1600	0.360	35	603	1600	0.383	5	596	1600	0.378	35	631	1600	0.400
Eb Right	8	0	-	1	9	0	-	0	8	0	-	1	9	0	-
Wb Left	23	1600	0.014	0	23	1600	0.014	0	24	1600	0.015	0	24	1600	0.015
Wb Thru	881	1600	0.551 *	256	1137	1600	0.711 *	3	919	1600	0.575 *	256	1175	1600	0.735 *
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.679				0.845				0.704				0.870
LOS			B				D				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Arizona Avenue @ Gardendale Street

N-S St: Arizona Avenue
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-17

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	4	0	0.003	2	6	0	0.004	0	4	0	0.003	2	6	0	0.004
Nb Thru	0	1600	0.023 *	0	0	1600	0.024 *	0	0	1600	0.023 *	0	0	1600	0.025 *
Nb Right	32	0	-	0	32	0	-	0	33	0	-	0	33	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	596	1600	0.376 *	206	802	1600	0.509 *	8	628	1600	0.396 *	206	834	1600	0.529 *
Eb Right	6	0	-	7	13	0	-	0	6	0	-	7	13	0	-
Wb Left	16	1600	0.010 *	0	16	1600	0.010 *	0	17	1600	0.010 *	0	17	1600	0.010 *
Wb Thru	490	1600	0.306	42	532	1600	0.333	14	524	1600	0.327	42	566	1600	0.354
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.509				0.643				0.530				0.664
LOS			A				B				A				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Industrial Avenue-Arizona Avenue @ Main Street

N-S St: Industrial Avenue-Arizona Avenue
E-W St: Main Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-18

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	30	0	0.009 *	0	30	0	0.009 *	0	31	0	0.010 *	0	31	0	0.010 *
Nb Thru	13	3200	0.023	0	13	3200	0.023	0	14	3200	0.023	0	14	3200	0.023
Nb Right	29	0	-	0	29	0	-	0	30	0	-	0	30	0	-
Sb Left	4	0	0.003	0	4	0	0.003	0	4	0	0.003	0	4	0	0.003
Sb Thru	14	1600	0.019 *	0	14	1600	0.021 *	0	15	1600	0.020 *	0	15	1600	0.022 *
Sb Right	13	0	-	3	16	0	-	0	14	0	-	3	17	0	-
Eb Left	16	0	0.010 *	18	34	0	0.021 *	0	17	0	0.010 *	18	35	0	0.022 *
Eb Thru	177	1600	0.135	0	177	1600	0.146	0	184	1600	0.140	0	184	1600	0.152
Eb Right	23	0	-	0	23	0	-	0	24	0	-	0	24	0	-
Wb Left	8	0	0.005	0	8	0	0.005	0	8	0	0.005	0	8	0	0.005
Wb Thru	243	1600	0.159 *	0	243	1600	0.159 *	0	253	1600	0.166 *	0	253	1600	0.166 *
Wb Right	4	0	-	0	4	0	-	0	4	0	-	0	4	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.298				0.311				0.306				0.319
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Industrial Avenue-Arizona Avenue @ Main Street

N-S St: Industrial Avenue-Arizona Avenue
E-W St: Main Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-18

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	22	0	0.007 *	0	22	0	0.007 *	0	23	0	0.007 *	0	23	0	0.007 *
Nb Thru	9	3200	0.018	0	9	3200	0.018	0	9	3200	0.019	0	9	3200	0.019
Nb Right	26	0	-	0	26	0	-	0	27	0	-	0	27	0	-
Sb Left	9	0	0.006	0	9	0	0.006	0	9	0	0.006	0	9	0	0.006
Sb Thru	8	1600	0.019 *	0	8	1600	0.028 *	0	8	1600	0.020 *	0	8	1600	0.029 *
Sb Right	13	0	-	15	28	0	-	0	14	0	-	15	29	0	-
Eb Left	10	0	0.006	3	13	0	0.008	1	11	0	0.007	3	14	0	0.009
Eb Thru	165	1600	0.123 *	0	165	1600	0.124 *	0	172	1600	0.128 *	0	172	1600	0.130 *
Eb Right	21	0	-	0	21	0	-	0	22	0	-	0	22	0	-
Wb Left	10	0	0.006 *	0	10	0	0.006 *	0	10	0	0.007 *	0	10	0	0.007 *
Wb Thru	140	1600	0.098	0	140	1600	0.098	0	146	1600	0.102	0	146	1600	0.102
Wb Right	7	0	-	0	7	0	-	0	7	0	-	0	7	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.254				0.266				0.261				0.272
LOS			A				A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Gardendale Street

N-S St: Paramount Boulevard
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-20

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	161	1600	0.101 *	137	298	1600	0.186 *	0	167	1600	0.105 *	137	304	1600	0.190 *
Nb Thru	942	3200	0.294	0	942	3200	0.294	-37	943	3200	0.295	0	943	3200	0.295
Nb Right	91	1600	0.057	0	91	1600	0.057	1	96	1600	0.060	0	96	1600	0.060
Sb Left	114	1600	0.071	0	114	1600	0.071	-15	104	1600	0.065	0	104	1600	0.065
Sb Thru	900	3200	0.281 *	0	900	3200	0.281 *	-11	925	3200	0.289 *	0	925	3200	0.289 *
Sb Right	91	1600	0.057	0	91	1600	0.057	0	95	1600	0.059	0	95	1600	0.059
Eb Left	80	1600	0.050	0	80	1600	0.050 *	0	83	1600	0.052	0	83	1600	0.052 *
Eb Thru	434	3200	0.158 *	16	450	3200	0.169	5	456	3200	0.166 *	16	472	3200	0.177
Eb Right	71	0	-	19	90	0	-	0	74	0	-	19	93	0	-
Wb Left	150	1600	0.094 *	0	150	1600	0.094	1	157	1600	0.098 *	0	157	1600	0.098
Wb Thru	638	3200	0.199	119	757	3200	0.237 *	2	666	3200	0.208	119	785	3200	0.245 *
Wb Right	163	1600	0.102	0	163	1600	0.102	-37	133	1600	0.083	0	133	1600	0.083
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.733				0.854				0.758				0.877
LOS			C				D				C				D

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Gardendale Street

N-S St: Paramount Boulevard
E-W St: Gardendale Street
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-20

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	79	1600	0.049	23	102	1600	0.064	5	87	1600	0.054	23	110	1600	0.069
Nb Thru	1046	3200	0.327 *	0	1046	3200	0.327 *	-10	1078	3200	0.337 *	0	1078	3200	0.337 *
Nb Right	113	1600	0.071	0	113	1600	0.071	2	120	1600	0.075	0	120	1600	0.075
Sb Left	118	1600	0.074 *	0	118	1600	0.074 *	-38	85	1600	0.053 *	0	85	1600	0.053 *
Sb Thru	946	3200	0.296	0	946	3200	0.296	-35	949	3200	0.297	0	949	3200	0.297
Sb Right	85	1600	0.053	0	85	1600	0.053	0	88	1600	0.055	0	88	1600	0.055
Eb Left	87	1600	0.054	0	87	1600	0.054	0	90	1600	0.057	0	90	1600	0.057
Eb Thru	459	3200	0.169 *	95	554	3200	0.233 *	5	482	3200	0.179 *	95	577	3200	0.243 *
Eb Right	83	0	-	110	193	0	-	3	89	0	-	110	199	0	-
Wb Left	106	1600	0.066 *	0	106	1600	0.066 *	2	112	1600	0.070 *	0	112	1600	0.070 *
Wb Thru	374	3200	0.117	20	394	3200	0.123	9	398	3200	0.124	20	418	3200	0.131
Wb Right	127	1600	0.079	0	127	1600	0.079	-14	118	1600	0.074	0	118	1600	0.074
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.736				0.800				0.739				0.803
LOS			C				C				C				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ N. Somerset Ranch Road

N-S St: Paramount Boulevard
E-W St: N. Somerset Ranch Road
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-21

Peak hr: AM
Annual Growth: 1%

Date: 10/04/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	213	3200	0.067 *	0	213	3200	0.067 *	0	222	3200	0.069 *	0	222	3200	0.069 *
Nb Thru	1001	3200	0.313	46	1047	3200	0.327	-6	1035	3200	0.323	46	1081	3200	0.338
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	801	3200	0.250	19	820	3200	0.256	-9	824	3200	0.258	19	843	3200	0.263
Sb Right	526	1600	0.329 *	0	526	1600	0.329 *	0	547	1600	0.342 *	0	547	1600	0.342 *
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	216	1600	0.135	0	216	1600	0.135	0	225	1600	0.140	0	225	1600	0.140
Wb Thru	504	1600	0.315 *	0	504	1600	0.315 *	0	524	1600	0.328 *	0	524	1600	0.328 *
Wb Right	354	1600	0.221	91	445	1600	0.278	-29	339	1600	0.212	91	430	1600	0.269
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.810				0.810				0.839				0.839
LOS			D				D				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ N. Somerset Ranch Road

N-S St: Paramount Boulevard
E-W St: N. Somerset Ranch Road
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-21

Peak hr: PM
Annual Growth: 1%

CITY OF SOUTH GATE

Date: 10/04/2018
Date of Count: 2017
Projection Year: 2021

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	175	3200	0.055	0	175	3200	0.055 *	0	182	3200	0.057	0	182	3200	0.057
Nb Thru	1047	3200	0.327 *	8	1055	3200	0.330	6	1095	3200	0.342 *	8	1103	3200	0.345 *
Nb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000	0	0	0	0.000 *	0	0	0	0.000 *
Sb Thru	781	3200	0.244	110	891	3200	0.278 *	-32	780	3200	0.244	110	890	3200	0.278
Sb Right	367	1600	0.229	0	367	1600	0.229	0	382	1600	0.239	0	382	1600	0.239
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Wb Left	214	1600	0.134	0	214	1600	0.134	0	223	1600	0.139	0	223	1600	0.139
Wb Thru	363	1600	0.227 *	0	363	1600	0.227 *	0	378	1600	0.236 *	0	378	1600	0.236 *
Wb Right	317	1600	0.198	15	332	1600	0.208	-8	322	1600	0.201	15	337	1600	0.210
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.654				0.660				0.678				0.681
LOS			B				B				B				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ S. Somerset Ranch Road

N-S St: Paramount Boulevard
E-W St: S. Somerset Ranch Road
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-22

Peak hr: AM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	804	3200	0.251 *	46	850	3200	0.266 *	-6	830	3200	0.259 *	46	876	3200	0.274 *
Nb Right	344	1600	0.215	0	344	1600	0.215	0	358	1600	0.224	0	358	1600	0.224
Sb Left	292	3200	0.091 *	13	305	3200	0.095 *	-11	293	3200	0.091 *	13	306	3200	0.096 *
Sb Thru	708	3200	0.221	6	714	3200	0.223	2	738	3200	0.231	6	744	3200	0.233
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	394	1600	0.246	0	394	1600	0.246	0	410	1600	0.256	0	410	1600	0.256
Eb Thru	644	3200	0.239	0	644	3200	0.239	0	670	3200	0.249	0	670	3200	0.249
Eb Right	121	0	-	0	121	0	-	0	126	0	-	0	126	0	-
Wb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.689				0.707				0.707				0.725
LOS			B				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ S. Somerset Ranch Road

N-S St: Paramount Boulevard
E-W St: S. Somerset Ranch Road
Project: 5-17-0354-1 / Rancho Los Amigos South Campus
File: ICU-22

Peak hr: PM
Annual Growth: 1%

Date: 10/03/2018
Date of Count: 2017
Projection Year: 2021

CITY OF SOUTH GATE

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 WITHOUT PROJECT				2021 W/PROJECT			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	804	3200	0.251 *	8	812	3200	0.254 *	6	842	3200	0.263 *	8	850	3200	0.266 *
Nb Right	189	1600	0.118	0	189	1600	0.118	0	197	1600	0.123	0	197	1600	0.123
Sb Left	195	3200	0.061 *	73	268	3200	0.084 *	-27	176	3200	0.055 *	73	249	3200	0.078 *
Sb Thru	795	3200	0.248	37	832	3200	0.260	-3	824	3200	0.257	37	861	3200	0.269
Sb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Eb Left	407	1600	0.254	0	407	1600	0.254	0	423	1600	0.265	0	423	1600	0.265
Eb Thru	724	3200	0.279 *	0	724	3200	0.279 *	0	753	3200	0.290 *	0	753	3200	0.290 *
Eb Right	169	0	-	0	169	0	-	0	176	0	-	0	176	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *				0.100 *
ICU			0.691				0.717				0.708				0.734
LOS			B				C				C				C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

APPENDIX D

ICU AND LEVELS OF SERVICE EXPLANATION
ICU DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS
CITY OF PARAMOUNT

INTERSECTION CAPACITY UTILIZATION (ICU) DESCRIPTION

Level of Service is a term used to describe prevailing conditions and their effect on traffic. Broadly interpreted, the Levels of Service concept denotes any one of a number of differing combinations of operating conditions which may occur as a roadway is accommodating various traffic volumes. Level of Service is a qualitative measure of the effect of such factors as travel speed, travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience.

Six Levels of Service, A through F, have been defined in the 1965 *Highway Capacity Manual*, published by the Transportation Research Board. Level of Service A describes a condition of free flow, with low traffic volumes and relatively high speeds, while Level of Service F describes forced traffic flow at low speeds with jammed conditions and queues which cannot clear during the green phases.

The Intersection Capacity Utilization (ICU) method of intersection capacity analysis has been used in our studies. It directly relates traffic demand and available capacity for key intersection movements, regardless of present signal timing, The capacity per hour of green time for each approach is calculated based on the methods of the *Highway Capacity Manual*. The proportion of total signal time needed by each key movement is determined and compared to the total time available (100 percent of the hour). The result of summing the requirements of the conflicting key movements plus an allowance for clearance times is expressed as a decimal fraction. Conflicting key traffic movements are those opposing movements whose combined green time requirements are greatest.

The resulting ICU represents the proportion of the total hour required to accommodate intersection demand volumes if the key conflicting traffic movements are operating at capacity. Other movements may be operating near capacity, or may be operating at significantly better levels. The ICU may be translated to a Level of Service as tabulated below.

The Levels of Service (abbreviated from the *Highway Capacity Manual*) are listed here with their corresponding ICU and Load Factor equivalents. Load Factor is that proportion of the signal cycles during the peak hour which are fully loaded; i.e. when all of the vehicles waiting at the beginning of green are not able to clear on that green phase.

Intersection Capacity Utilization Characteristics

Level of Service	Load Factor	Equivalent ICU
A	0.0	0.00 - 0.60
B	0.0 - 0.1	0.61 - 0.70
C	0.1 - 0.3	0.71 - 0.80
D	0.3 - 0.7	0.81 - 0.90
E	0.7 - 1.0	0.91 - 1.00
F	Not Applicable	Not Applicable

SERVICE LEVEL A
There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B
This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

SERVICE LEVEL C
At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more than one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

SERVICE LEVEL D
This level encompasses a zone of increasing restriction approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak hour, but enough cycles with lower demand occur to permit periodic clearance of queues, thus preventing excessive backups. Drivers frequently have to wait through more than one red signal. This level is the lower limit of acceptable operation to most drivers.

SERVICE LEVEL E
This represents near capacity and capacity operation. At capacity (ICU = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F
Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ N. Somerset Ranch Road

N-S St:	Garfield Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	N. Somerset Ranch Road	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-10				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC				2017 W/PROJECT SITE TRAFFIC					2021 W/RELATED PROJECTS				
	1		2	V/C	Added	Total		2	V/C	Added	Total		2	V/C
Movement	Volume		Capacity	Ratio	Volume	Volume		Capacity	Ratio	Volume	Volume		Capacity	Ratio
Nb Left	157		2880	0.055	0	157		2880	0.055	0	163		2880	0.057
Nb Thru	1042		3200	0.326 *	164	1206		3200	0.377 *	-48	1200		3200	0.375 *
Nb Right	0		0	-	0	0		0	-	0	0		0	-
Sb Left	0		0	0.000 *	0	0		0	0.000 *	0	0		0	0.000 *
Sb Thru	832		3200	0.260	6	838		3200	0.262	6	877		3200	0.274
Sb Right	290		1600	0.181	16	306		1600	0.191	-15	303		1600	0.189
Eb Left	0		0	0.000 *	0	0		0	0.000 *	0	0		0	0.000 *
Eb Thru	0		0	0.000	0	0		0	0.000	0	0		0	0.000
Eb Right	0		0	-	0	0		0	-	0	0		0	-
Wb Left	355		1600	0.222	0	355		1600	0.222	0	369		1600	0.231
Wb Thru	734		3200	0.263 *	0	734		3200	0.263 *	0	763		3200	0.273 *
Wb Right	107		0	-	0	107		0	-	0	111		0	-
Yellow Allowance:				0.100 *					0.100 *					0.100 *
ICU				0.688					0.740					0.748
LOS				B					C					C

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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CITY OF PARAMOUNT

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	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	291	2880	0.101	0	291	2880	0.101 *	0	303	2880	0.105
Nb Thru	900	3200	0.281 *	27	927	3200	0.290	-2	961	3200	0.300 *
Nb Right	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000 *	0	0	0	0.000	0	0	0	0.000 *
Sb Thru	506	3200	0.158	37	543	3200	0.170	-7	556	3200	0.174
Sb Right	243	1600	0.152	95	338	1600	0.211 *	-36	312	1600	0.195
Eb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-
Wb Left	221	1600	0.138	0	221	1600	0.138	0	230	1600	0.144
Wb Thru	593	3200	0.228 *	0	593	3200	0.228 *	0	617	3200	0.237 *
Wb Right	135	0	-	0	135	0	-	0	140	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.609				0.640				0.637
LOS			B				B				B

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ S. Somerset Ranch Road

N-S St:	Garfield Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	S. Somerset Ranch Road	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-11				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC				2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C		Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio		Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000		0	0	0	0.000	0	0	0	0.000
Nb Thru	845	3200	0.264	*	46	891	3200	0.278 *	-10	915	3200	0.286 *
Nb Right	322	1600	0.201		0	322	1600	0.201	0	335	1600	0.209
Sb Left	175	3200	0.055	*	0	175	3200	0.055 *	0	182	3200	0.057 *
Sb Thru	992	3200	0.310		6	998	3200	0.312	6	1044	3200	0.326
Sb Right	0	0	-		0	0	0	-	0	0	0	-
Eb Left	356	0	0.111		119	475	0	0.148	-37	452	0	0.141
Eb Thru	699	3200	0.330		0	699	3200	0.367 *	0	727	3200	0.369
Eb Right	567	1600	0.354	*	0	567	1600	0.354	0	590	1600	0.369 *
Wb Left	0	0	0.000	*	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0	0	0.000		0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-		0	0	0	-	0	0	0	-
Yellow Allowance:			0.100	*				0.100 *				0.100 *
ICU			0.773					0.800				0.811
LOS			C					C				D

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INTERSECTION CAPACITY UTILIZATION

Garfield Avenue @ S. Somerset Ranch Road

N-S St:	Garfield Avenue	Peak hr:	PM	Date:	10/03/2018
E-W St:	S. Somerset Ranch Road	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-11				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	989	3200	0.309 *	8	997	3200	0.312 *	8	1045	3200	0.326 *
Nb Right	467	1600	0.292	0	467	1600	0.292	0	486	1600	0.304
Sb Left	81	3200	0.025 *	0	81	3200	0.025 *	0	84	3200	0.026 *
Sb Thru	651	3200	0.203	37	688	3200	0.215	-7	707	3200	0.221
Sb Right	0	0	-	0	0	0	-	0	0	0	-
Eb Left	217	0	0.068	20	237	0	0.074	-10	236	0	0.074
Eb Thru	777	3200	0.311	0	777	3200	0.317	0	808	3200	0.326
Eb Right	512	1600	0.320 *	0	512	1600	0.320 *	0	532	1600	0.333 *
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.754				0.757				0.786
LOS			C				C				C

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Gardendale Street

N-S St:	Paramount Boulevard	Peak hr:	AM	Date:	10/03/2018
E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-20				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	161	1600	0.101 *	137	298	1600	0.186 *	0	304	1600	0.190 *
Nb Thru	942	3200	0.294	0	942	3200	0.294	-37	943	3200	0.295
Nb Right	91	1600	0.057	0	91	1600	0.057	1	96	1600	0.060
Sb Left	114	1600	0.071	0	114	1600	0.071	-15	104	1600	0.065
Sb Thru	900	3200	0.281 *	0	900	3200	0.281 *	-11	925	3200	0.289 *
Sb Right	91	1600	0.057	0	91	1600	0.057	0	95	1600	0.059
Eb Left	80	1600	0.050	0	80	1600	0.050 *	0	83	1600	0.052 *
Eb Thru	434	3200	0.158 *	16	450	3200	0.169	5	472	3200	0.177
Eb Right	71	0	-	19	90	0	-	0	93	0	-
Wb Left	150	1600	0.094 *	0	150	1600	0.094	1	157	1600	0.098
Wb Thru	638	3200	0.199	119	757	3200	0.237 *	2	785	3200	0.245 *
Wb Right	163	1600	0.102	0	163	1600	0.102	-37	133	1600	0.083
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.733				0.854				0.877
LOS			C				D				D

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Gardendale Street

N-S St:	Paramount Boulevard	Peak hr:	PM	Date:	10/03/2018
E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-20				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	79	1600	0.049	23	102	1600	0.064	5	110	1600	0.069
Nb Thru	1046	3200	0.327 *	0	1046	3200	0.327 *	-10	1078	3200	0.337 *
Nb Right	113	1600	0.071	0	113	1600	0.071	2	120	1600	0.075
Sb Left	118	1600	0.074 *	0	118	1600	0.074 *	-38	85	1600	0.053 *
Sb Thru	946	3200	0.296	0	946	3200	0.296	-35	949	3200	0.297
Sb Right	85	1600	0.053	0	85	1600	0.053	0	88	1600	0.055
Eb Left	87	1600	0.054	0	87	1600	0.054	0	90	1600	0.057
Eb Thru	459	3200	0.169 *	95	554	3200	0.233 *	5	577	3200	0.243 *
Eb Right	83	0	-	110	193	0	-	3	199	0	-
Wb Left	106	1600	0.066 *	0	106	1600	0.066 *	2	112	1600	0.070 *
Wb Thru	374	3200	0.117	20	394	3200	0.123	9	418	3200	0.131
Wb Right	127	1600	0.079	0	127	1600	0.079	-14	118	1600	0.074
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.736				0.800				0.803
LOS			C				C				D

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Downey Avenue @ Gardendale Street

N-S St:	Downey Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-23				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC				2017 W/PROJECT SITE TRAFFIC					2021 W/RELATED PROJECTS				
	1		2	V/C	Added	Total	2	V/C		Added	Total	2	V/C	
Movement	Volume		Capacity	Ratio	Volume	Volume	Capacity	Ratio		Volume	Volume	Capacity	Ratio	
Nb Left	138		1600	0.086	46	184	1600	0.115	*	-14	176	1600	0.110	*
Nb Thru	400		3200	0.134	* 0	400	3200	0.134		1	417	3200	0.140	
Nb Right	30		0	-	0	30	0	-		0	31	0	-	
Sb Left	143		1600	0.089	* 0	143	1600	0.089		0	149	1600	0.093	
Sb Thru	328		3200	0.132	0	328	3200	0.132	*	1	342	3200	0.137	*
Sb Right	94		0	-	0	94	0	-		0	98	0	-	
Eb Left	62		1600	0.039	* 0	62	1600	0.039	*	0	64	1600	0.040	*
Eb Thru	516		3200	0.189	10	526	3200	0.194		-3	544	3200	0.199	
Eb Right	89		0	-	6	95	0	-		-6	93	0	-	
Wb Left	48		1600	0.030	0	48	1600	0.030		0	50	1600	0.031	
Wb Thru	644		3200	0.229	* 73	717	3200	0.252	*	-20	723	3200	0.254	*
Wb Right	88		0	-	0	88	0	-		0	92	0	-	
Yellow Allowance:				0.100	*			0.100	*				0.100	*
ICU				0.591				0.637					0.642	
LOS				A				B					B	

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Downey Avenue @ Gardendale Street

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E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-23				

CITY OF PARAMOUNT

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	130	1600	0.081	8	138	1600	0.086	-4	139	1600	0.087
Nb Thru	523	3200	0.178 *	0	523	3200	0.178 *	1	545	3200	0.186 *
Nb Right	47	0	-	0	47	0	-	0	49	0	-
Sb Left	100	1600	0.063 *	0	100	1600	0.063 *	0	104	1600	0.065 *
Sb Thru	349	3200	0.130	0	349	3200	0.130	1	364	3200	0.136
Sb Right	67	0	-	0	67	0	-	0	70	0	-
Eb Left	75	1600	0.047 *	0	75	1600	0.047	0	78	1600	0.049
Eb Thru	556	3200	0.197	59	615	3200	0.227 *	-17	620	3200	0.225 *
Eb Right	73	0	-	37	110	0	-	-14	99	0	-
Wb Left	38	1600	0.024	0	38	1600	0.024 *	0	40	1600	0.025 *
Wb Thru	462	3200	0.178 *	12	474	3200	0.181	1	493	3200	0.189
Wb Right	106	0	-	0	106	0	-	0	110	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.565				0.591				0.600
LOS			A				A				A

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APPENDIX E

ICU AND LEVELS OF SERVICE EXPLANATION
ICU DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS
COUNTY OF LOS ANGELES

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There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B
This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

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At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more than one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

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SERVICE LEVEL E
This represents near capacity and capacity operation. At capacity (ICU = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F
Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ W. Imperial Highway

N-S St:	Erickson Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	W. Imperial Highway	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-13				

COUNTY OF LOS ANGELES

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	31	2880	0.011 *	19	50	2880	0.017 *	0	51	2880	0.018 *
Nb Thru	40	1600	0.025	0	40	1600	0.025	0	42	1600	0.026
Nb Right	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	25	3200	0.016 *	0	25	3200	0.016 *	0	26	3200	0.017 *
Sb Right	26	0	-	0	26	0	-	0	27	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-
Wb Left	229	1600	0.143	183	412	1600	0.258	0	421	1600	0.263
Wb Thru	18	1600	0.037	0	18	1600	0.037	0	19	1600	0.038
Wb Right	41	0	-	0	41	0	-	0	43	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.270				0.391				0.398
LOS			A				A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ W. Imperial Highway

N-S St:	Erickson Avenue	Peak hr:	PM	Date:	10/03/2018
E-W St:	W. Imperial Highway	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-13				

COUNTY OF LOS ANGELES

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	83	2880	0.029 *	110	193	2880	0.067 *	3	199	2880	0.069 *
Nb Thru	11	1600	0.007	0	11	1600	0.007	0	11	1600	0.007
Nb Right	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Thru	41	3200	0.023 *	0	41	3200	0.023 *	0	43	3200	0.023 *
Sb Right	31	0	-	0	31	0	-	0	32	0	-
Eb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Eb Right	0	0	-	0	0	0	-	0	0	0	-
Wb Left	71	1600	0.044	30	101	1600	0.063	6	110	1600	0.069
Wb Thru	8	1600	0.009	0	8	1600	0.009	0	8	1600	0.009
Wb Right	6	0	-	0	6	0	-	0	6	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.196				0.253				0.261
LOS			A				A				A

**** Key conflicting movement as a part of ICU***
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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ E. Imperial Highway

N-S St:	Erickson Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	E. Imperial Highway	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-14				

COUNTY OF LOS ANGELES

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Nb Thru	42	3200	0.025	19	61	3200	0.039	0	63	3200	0.040
Nb Right	39	0	-	25	64	0	-	0	66	0	-
Sb Left	47	1600	0.029	0	47	1600	0.029	0	49	1600	0.031
Sb Thru	206	3200	0.064 *	183	389	3200	0.122 *	0	397	3200	0.124 *
Sb Right	0	0	-	0	0	0	-	0	0	0	-
Eb Left	29	1600	0.018	0	29	1600	0.018	0	30	1600	0.019
Eb Thru	3	1600	0.073 *	0	3	1600	0.159 *	0	3	1600	0.162 *
Eb Right	114	0	-	137	251	0	-	0	256	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0	0	-	0	0	0	-	0	0	0	-
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.238				0.380				0.386
LOS			A				A				A

**** Key conflicting movement as a part of ICU***
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2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ E. Imperial Highway

N-S St:	Erickson Avenue	Peak hr:	PM	Date:	10/03/2018
E-W St:	E. Imperial Highway	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-14				

COUNTY OF LOS ANGELES

	2017 EXIST. TRAFFIC				2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1		2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume		Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0		0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	87		3200	0.063 *	110	197	3200	0.144 *	3	203	3200	0.148 *
Nb Right	116		0	-	147	263	0	-	3	271	0	-
Sb Left	59		1600	0.037 *	0	59	1600	0.037 *	0	61	1600	0.038 *
Sb Thru	56		3200	0.018	30	86	3200	0.027	6	94	3200	0.029
Sb Right	0		0	-	0	0	0	-	0	0	0	-
Eb Left	6		1600	0.004	0	6	1600	0.004	0	6	1600	0.004
Eb Thru	4		1600	0.031 *	0	4	1600	0.045 *	0	4	1600	0.049 *
Eb Right	45		0	-	23	68	0	-	5	75	0	-
Wb Left	0		0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	0		0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Right	0		0	-	0	0	0	-	0	0	0	-
Yellow Allowance:				0.100 *				0.100 *				0.100 *
ICU				0.231				0.326				0.336
LOS				A				A				A

**** Key conflicting movement as a part of ICU***
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2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Gardendale Street

N-S St:	Erickson Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-16				

COUNTY OF LOS ANGELES

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Right	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	1600	0.000	36	36	1600	0.023	0	36	1600	0.023
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	1600	0.000	33	33	1600	0.021	0	33	1600	0.021
Eb Left	0	1600	0.000 *	237	237	1600	0.148 *	1	238	1600	0.149 *
Eb Thru	572	1600	0.358	0	572	1600	0.358	5	600	1600	0.375
Eb Right	0	0	-	0	0	0	-	0	0	0	-
Wb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Wb Thru	900	1600	0.563 *	0	900	1600	0.563 *	2	938	1600	0.586 *
Wb Right	0	1600	0.000	265	265	1600	0.166	1	266	1600	0.166
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.663				0.833				0.858
LOS			B				D				D

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Gardendale Street

N-S St:	Erickson Avenue	Peak hr:	PM	Date:	10/03/2018
E-W St:	Gardendale Street	Annual Growth:	1%	Date of Count:	2017
Project:	5-17-0354-1 Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-16				

COUNTY OF LOS ANGELES

	2017 EXIST. TRAFFIC			2017 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Nb Right	0	0	-	0	0	0	-	0	0	0	-
Sb Left	0	1600	0.000	213	213	1600	0.133	5	218	1600	0.136
Sb Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000
Sb Right	0	1600	0.000	191	191	1600	0.119	4	195	1600	0.122
Eb Left	0	1600	0.000	39	39	1600	0.024	8	47	1600	0.029
Eb Thru	599	1600	0.374 *	0	599	1600	0.374 *	3	626	1600	0.391 *
Eb Right	0	0	-	0	0	0	-	0	0	0	-
Wb Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *
Wb Thru	490	1600	0.306	0	490	1600	0.306	5	515	1600	0.322
Wb Right	0	1600	0.000	44	44	1600	0.028	9	53	1600	0.033
Yellow Allowance:			0.100 *				0.100 *				0.100 *
ICU			0.474				0.608				0.627
LOS			A				B				B

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Amigos Avenue

N-S St:	Erickson Avenue	Peak hr:	AM	Date:	10/03/2018
E-W St:	Amigos Avenue	Annual Growth:	1%	Date of Count:	2018
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-27				

COUNTY OF LOS ANGELES

	2018 EXIST. TRAFFIC				2018 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1		2	V/C	Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume		Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	40		1600	0.025 *	13	53	1600	0.033 *	0	54	1600	0.034 *
Nb Thru	36		3200	0.012	44	80	3200	0.026	0	81	3200	0.026
Nb Right	2		0	-	0	2	0	-	0	2	0	-
Sb Left	42		1600	0.026	0	42	1600	0.026	0	43	1600	0.027
Sb Thru	79		3200	0.038 *	320	399	3200	0.138 *	1	402	3200	0.140 *
Sb Right	44		0	-	0	44	0	-	0	45	0	-
Eb Left	8		1600	0.005	0	8	1600	0.005	0	8	1600	0.005
Eb Thru	13		3200	0.013 *	0	13	3200	0.042 *	0	13	3200	0.042 *
Eb Right	29		0	-	91	120	0	-	0	121	0	-
Wb Left	0		1600	0.000 *	0	0	1600	0.000 *	0	0	1600	0.000 *
Wb Thru	7		3200	0.005	0	7	3200	0.005	0	7	3200	0.005
Wb Right	9		0	-	0	9	0	-	0	9	0	-
Yellow Allowance:				0.100 *				0.100 *				0.100 *
ICU				0.177				0.313				0.316
LOS				A				A				A

**** Key conflicting movement as a part of ICU***

1 Counts conducted by: National Data & Surveying Services

2 Capacity expressed in veh/hour of green

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INTERSECTION CAPACITY UTILIZATION

Erickson Avenue @ Amigos Avenue

N-S St:	Erickson Avenue	Peak hr:	PM	Date:	10/03/2018
E-W St:	Amigos Avenue	Annual Growth:	1%	Date of Count:	2018
Project:	5-17-0354-1 / Rancho Los Amigos South Campus			Projection Year:	2021
File:	ICU-27				

COUNTY OF LOS ANGELES

	2018 EXIST. TRAFFIC				2018 W/PROJECT SITE TRAFFIC				2021 W/RELATED PROJECTS			
	1	2	V/C		Added	Total	2	V/C	Added	Total	2	V/C
Movement	Volume	Capacity	Ratio		Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
Nb Left	25	1600	0.016		73	98	1600	0.061	2	101	1600	0.063
Nb Thru	72	3200	0.023	*	257	329	3200	0.103 *	6	337	3200	0.106 *
Nb Right	2	0	-		0	2	0	-	0	2	0	-
Sb Left	15	1600	0.009	*	0	15	1600	0.009 *	0	15	1600	0.010 *
Sb Thru	40	3200	0.015		53	93	3200	0.032	11	105	3200	0.035
Sb Right	8	0	-		0	8	0	-	0	8	0	-
Eb Left	19	1600	0.012		0	19	1600	0.012	0	20	1600	0.012
Eb Thru	17	3200	0.020	*	0	17	3200	0.025 *	0	18	3200	0.026 *
Eb Right	47	0	-		15	62	0	-	3	66	0	-
Wb Left	1	1600	0.001	*	0	1	1600	0.001 *	0	1	1600	0.001 *
Wb Thru	8	3200	0.006		0	8	3200	0.006	0	8	3200	0.006
Wb Right	12	0	-		0	12	0	-	0	12	0	-
Yellow Allowance:			0.100	*				0.100 *				0.100 *
ICU			0.153					0.238				0.243
LOS			A					A				A

**** Key conflicting movement as a part of ICU***
1 Counts conducted by: National Data & Surveying Services
2 Capacity expressed in veh/hour of green

APPENDIX F

HCM AND LEVELS OF SERVICE EXPLANATION
HCM DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS

LEVEL OF SERVICE FOR UNSIGNALIZED INTERSECTIONS

In the *Highway Capacity Manual (HCM)*, published by the Transportation Research Board, 2000, level of service for unsignalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and lost travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions, in the absence of incidents, control, traffic, or geometric delay. Only the portion of total delay attributed to the traffic control measures, either traffic signals or stop signs, is quantified. This delay is called *control delay*. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Level of Service criteria for unsignalized intersections are stated in terms of the average control delay per vehicle. The level of service is determined by the computed or measured control delay and is defined for each minor movement. Average control delay for any particular minor movement is a function of the service time for the approach and the degree of utilization. (Level of service is not defined for the intersection as a whole for two-way stop controlled intersections.)

Level of Service Criteria for TWSC/AWSC Intersections

Level of Service	Average Control Delay (Sec/Veh)
A	≤ 10
B	> 10 and ≤ 15
C	> 15 and ≤ 25
D	> 25 and ≤ 35
E	> 35 and ≤ 50
F	> 50

Level of Service (LOS) values are used to describe intersection operations with service levels varying from LOS A (free flow) to LOS F (jammed condition). The following descriptions summarize *HCM* criteria for each level of service:

LOS A describes operations with very low control delay, up to 10 seconds per vehicle.

LOS B describes operations with control delay greater than 10 and up to 15 seconds per vehicle.

LOS C describes operations with control delay greater than 15 and up to 25 seconds per vehicle.

LOS D describes operations with control delay greater than 25 and up to 35 seconds per vehicle.

LOS E describes operations with control delay greater than 35 and up to 50 seconds per vehicle.

LOS F describes operations with control delay in excess of 50 seconds per vehicle. For two-way stop controlled intersections, LOS F exists when there are insufficient gaps of suitable size to allow side-street demand to safely cross through a major-street traffic stream. This level of service is generally evident from extremely long control delays experienced by side-street traffic and by queuing on the minor-street approaches.

LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

In the *Highway Capacity Manual (HCM)*, published by the Transportation Research Board, 2000, level of service for signalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions: in the absence of traffic control, in the absence of geometric delay, in the absence of incidents, and when there are no other vehicles on the road. Only the portion of total delay attributed to the control facility is quantified. This delay is called *control delay*. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Level of Service criteria for traffic signals are stated in terms of the average control delay per vehicle. Delay is a complex measure and is dependent on a number of variables, including the quality of progression, the cycle length, the green ratio, and the *v/c* ratio for the lane group in question.

Level of Service Criteria for Signalized Intersections

Level of Service	Control Delay (Sec/Veh)
A	≤ 10
B	> 10 and ≤ 20
C	> 20 and ≤ 35
D	> 35 and ≤ 55
E	> 55 and ≤ 80
F	> 80

Level of Service (LOS) values are used to describe intersection operations with service levels varying from LOS A (free flow) to LOS F (jammed condition). The following descriptions summarize *HCM* criteria for each level of service:

LOS A describes operations with very low control delay, up to 10 seconds per vehicle. This level of service occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay values.

LOS B describes operations with control delay greater than 10 and up to 20 seconds per vehicle. This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of delay.

LOS C describes operations with control delay greater than 20 and up to 35 seconds per vehicle. These higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.

LOS D describes operations with control delay greater than 35 and up to 55 seconds per vehicle. At LOS D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high *v/c* ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.

LOS E describes operations with control delay greater than 55 and up to 80 seconds per vehicle. This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high *v/c* ratios. Individual cycle failures are frequent occurrences.

LOS F describes operations with control delay in excess of 80 seconds per vehicle. This level, considered to be unacceptable to most drivers, often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the lane groups. It may also occur at high *v/c* ratios with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing factors to such delay levels.

HCS7 Two-Way Stop-Control Report

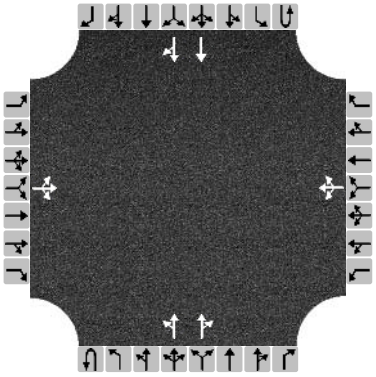
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - AM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		6	13	23		5	3	2		15	947	42			732	11
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			42				10			15						
Capacity, c (veh/h)			169				101			854						
v/c Ratio			0.25				0.10			0.02						
95% Queue Length, Q_{95} (veh)			0.9				0.3			0.1						
Control Delay (s/veh)			33.2				44.6			9.3						
Level of Service, LOS			D				E			A						
Approach Delay (s/veh)		33.2				44.6				0.3						
Approach LOS		D				E										

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HCS7 Two-Way Stop-Control Report

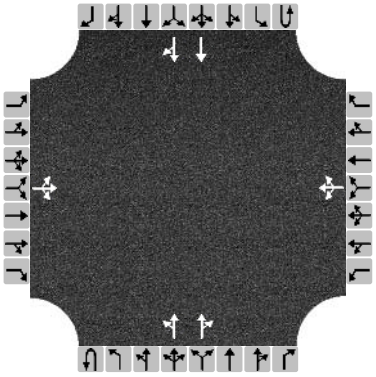
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - PM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		20	8	24		6	2	2		41	693	41			717	71
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			52				10			41						
Capacity, c (veh/h)			192				141			821						
v/c Ratio			0.27				0.07			0.05						
95% Queue Length, Q_{95} (veh)			1.1				0.2			0.2						
Control Delay (s/veh)			30.7				32.6			9.6						
Level of Service, LOS			D				D			A						
Approach Delay (s/veh)		30.7				32.6				0.8						
Approach LOS		D				D										

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HCS7 Two-Way Stop-Control Report

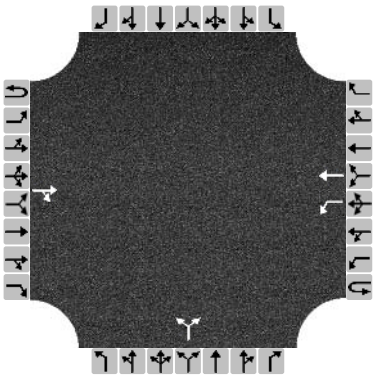
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			509	2		12	923			5		59				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						12					64					
Capacity, c (veh/h)						1048					455					
v/c Ratio						0.01					0.14					
95% Queue Length, Q_{95} (veh)						0.0					0.5					
Control Delay (s/veh)						8.5					14.2					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.1					14.2					
Approach LOS											B					

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HCS7 Two-Way Stop-Control Report

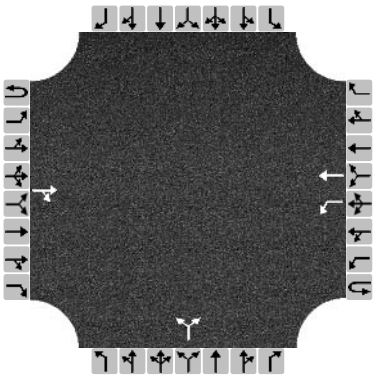
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			575	0		13	456			1		54				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

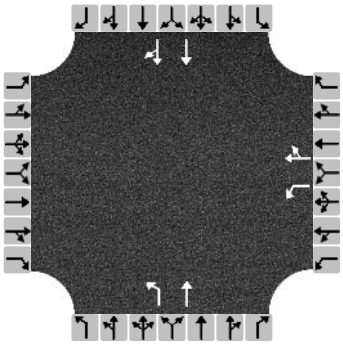
Flow Rate, v (veh/h)						13					55					
Capacity, c (veh/h)						992					505					
v/c Ratio						0.01					0.11					
95% Queue Length, Q_{95} (veh)						0.0					0.4					
Control Delay (s/veh)						8.7					13.0					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.2					13.0					
Approach LOS											B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	W. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				229	18	41	31	40			25	26
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				229	59		31	40		13	39	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.204	0.052		0.028	0.036		0.011	0.034	
Final Departure Headway, hd (s)				5.35	4.36		5.87	5.36		5.39	4.92	
Final Degree of Utilization, x				0.340	0.072		0.051	0.060		0.019	0.053	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.05	2.06		3.57	3.06		3.09	2.62	

Capacity, Delay and Level of Service

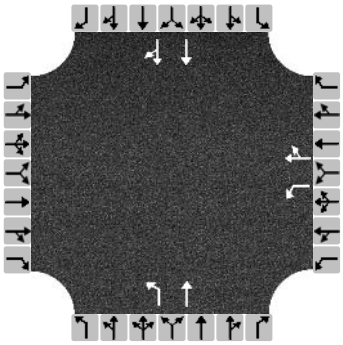
Flow Rate, v (veh/h)				229	59		31	40		13	39	
Capacity				673	825		614	671		668	732	
95% Queue Length, Q_{95} (veh)				1.5	0.2		0.2	0.2		0.1	0.2	
Control Delay (s/veh)				10.8	7.4		8.9	8.4		8.2	7.9	
Level of Service, LOS				B	A		A	A		A	A	
Approach Delay (s/veh)				10.1			8.6			8.0		
Approach LOS				B			A			A		
Intersection Delay, s/veh | LOS	9.6						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	W. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				71	8	6	83	11			41	31
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				71	14		83	11		21	52	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.063	0.012		0.074	0.010		0.018	0.046	
Final Departure Headway, hd (s)				5.43	4.63		5.33	4.83		4.86	4.43	
Final Degree of Utilization, x				0.107	0.018		0.123	0.015		0.028	0.063	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.13	2.33		3.03	2.53		2.56	2.13	

Capacity, Delay and Level of Service

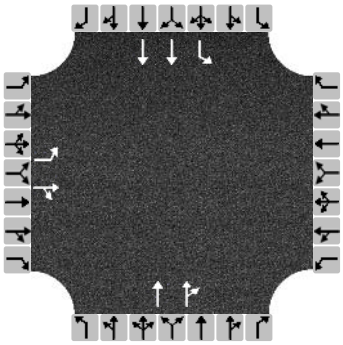
Flow Rate, v (veh/h)				71	14		83	11		21	52	
Capacity				663	777		675	746		741	812	
95% Queue Length, Q_{95} (veh)				0.4	0.1		0.4	0.0		0.1	0.2	
Control Delay (s/veh)				8.8	7.4		8.8	7.6		7.7	7.4	
Level of Service, LOS				A	A		A	A		A	A	
Approach Delay (s/veh)				8.6			8.6			7.5		
Approach LOS				A			A			A		
Intersection Delay, s/veh | LOS	8.3						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	E. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	29	3	114					42	39	47	206	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	29	117					21	60		47	103	103
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.026	0.104					0.019	0.053		0.042	0.092	0.092
Final Departure Headway, hd (s)	5.94	4.76					5.49	5.03		5.64	5.13	5.13
Final Degree of Utilization, x	0.048	0.155					0.032	0.084		0.074	0.147	0.147
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	3.64	2.46					3.19	2.73		3.34	2.83	2.83

Capacity, Delay and Level of Service

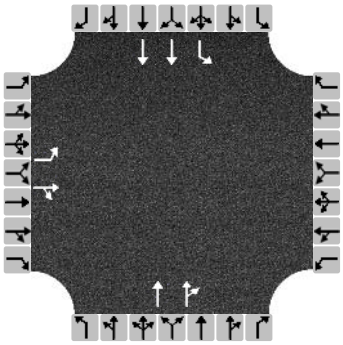
Flow Rate, v (veh/h)	29	117					21	60		47	103	103
Capacity	606	757					656	716		639	701	701
95% Queue Length, Q_{95} (veh)	0.2	0.5					0.1	0.3		0.2	0.5	0.5
Control Delay (s/veh)	8.9	8.3					8.4	8.2		8.8	8.7	8.7
Level of Service, LOS	A	A					A	A		A	A	A
Approach Delay (s/veh)	8.4						8.2			8.7		
Approach LOS	A						A			A		
Intersection Delay, s/veh | LOS	8.6						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	E. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	6	4	45					87	116	59	56	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	6	49					44	160		59	28	28
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.005	0.044					0.039	0.142		0.052	0.025	0.025
Final Departure Headway, hd (s)	5.86	4.72					4.94	4.43		5.57	5.07	5.07
Final Degree of Utilization, x	0.010	0.064					0.060	0.196		0.091	0.039	0.039
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	3.56	2.42					2.64	2.13		3.27	2.77	2.77

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	6	49					44	160		59	28	28
Capacity	614	763					728	812		646	710	710
95% Queue Length, Q_{95} (veh)	0.0	0.2					0.2	0.7		0.3	0.1	0.1
Control Delay (s/veh)	8.6	7.7					8.0	8.2		8.8	8.0	8.0
Level of Service, LOS	A	A					A	A		A	A	A
Approach Delay (s/veh)	7.8						8.2			8.4		
Approach LOS	A						A			A		
Intersection Delay, s/veh | LOS	8.2						A					

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HCS7 Two-Way Stop-Control Report

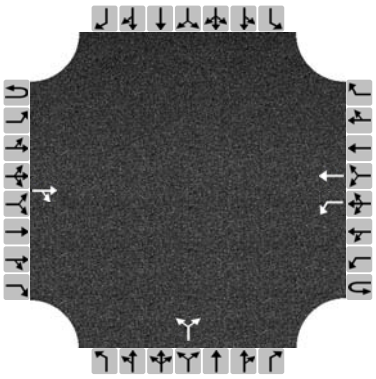
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			565	18		6	895			35		5				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						6					40					
Capacity, c (veh/h)						986					150					
v/c Ratio						0.01					0.27					
95% Queue Length, Q_{95} (veh)						0.0					1.0					
Control Delay (s/veh)						8.7					37.4					
Level of Service, LOS						A					E					
Approach Delay (s/veh)						0.1					37.4					
Approach LOS											E					

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HCS7 Two-Way Stop-Control Report

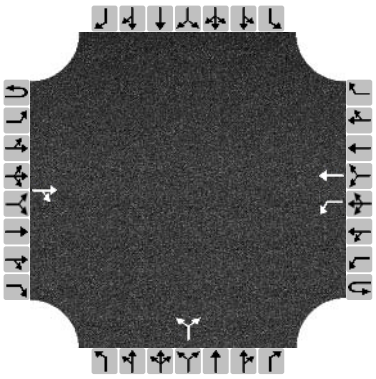
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			608	29		10	461			25		9				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						10					34					
Capacity, c (veh/h)						941					267					
v/c Ratio						0.01					0.13					
95% Queue Length, Q_{95} (veh)						0.0					0.4					
Control Delay (s/veh)						8.9					20.4					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.2					20.4					
Approach LOS											C					

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HCS7 Two-Way Stop-Control Report

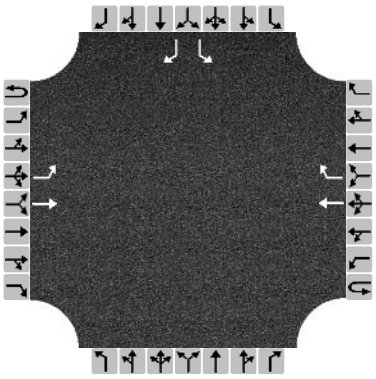
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		0	572				900	0						0		0
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		0												0		0
Capacity, c (veh/h)		750												139		336
v/c Ratio		0.00												0.00		0.00
95% Queue Length, Q_{95} (veh)		0.0												0.0		0.0
Control Delay (s/veh)		9.8												30.9		15.7
Level of Service, LOS		A												D		C
Approach Delay (s/veh)	0.0															
Approach LOS																

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HCS7 Two-Way Stop-Control Report

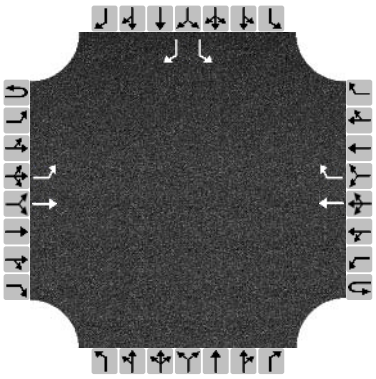
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		0	599				490	0						0		0
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		0												0		0
Capacity, c (veh/h)		1067												237		576
v/c Ratio		0.00												0.00		0.00
95% Queue Length, Q_{95} (veh)		0.0												0.0		0.0
Control Delay (s/veh)		8.4												20.2		11.3
Level of Service, LOS		A												C		B
Approach Delay (s/veh)	0.0															
Approach LOS																

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HCS7 Two-Way Stop-Control Report

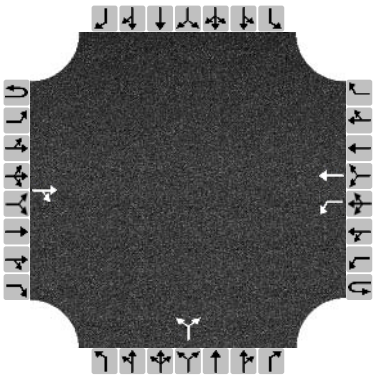
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			568	8		23	881			19		27				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						23					46					
Capacity, c (veh/h)						991					233					
v/c Ratio						0.02					0.20					
95% Queue Length, Q_{95} (veh)						0.1					0.7					
Control Delay (s/veh)						8.7					24.2					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.2				24.2						
Approach LOS										C						

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HCS7 Two-Way Stop-Control Report

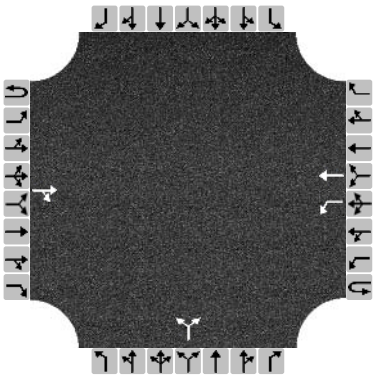
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			596	6		16	490			4		32				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						16					36					
Capacity, c (veh/h)						970					439					
v/c Ratio						0.02					0.08					
95% Queue Length, Q_{95} (veh)						0.1					0.3					
Control Delay (s/veh)						8.8					13.9					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.3					13.9					
Approach LOS											B					

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HCS7 Two-Way Stop-Control Report

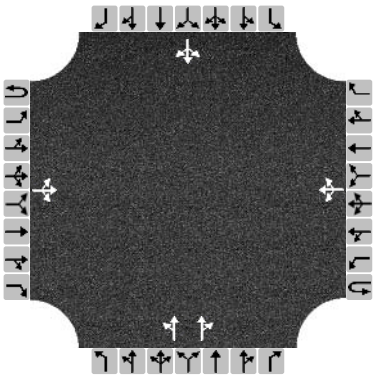
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		16	177	23		8	243	4		30	13	29		4	14	13
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		16				8				37		36			31	
Capacity, c (veh/h)		1312				1365				459		741			559	
v/c Ratio		0.01				0.01				0.08		0.05			0.06	
95% Queue Length, Q_{95} (veh)		0.0				0.0				0.3		0.2			0.2	
Control Delay (s/veh)		7.8				7.7				13.5		10.1			11.8	
Level of Service, LOS		A				A				B		B			B	
Approach Delay (s/veh)	0.7				0.3				12.0				11.8			
Approach LOS									B				B			

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HCS7 Two-Way Stop-Control Report

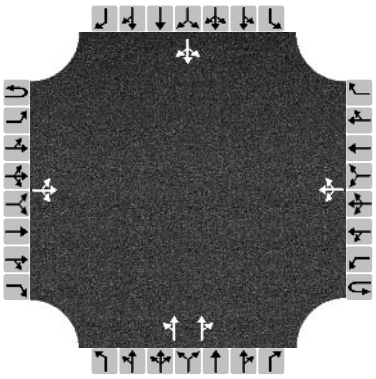
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		10	165	21		10	140	7		22	9	26		9	8	13
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

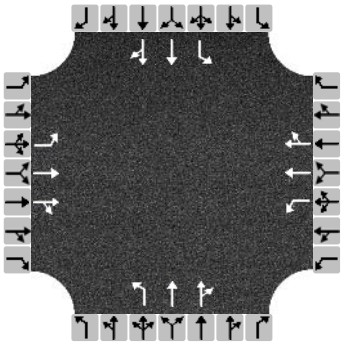
Flow Rate, v (veh/h)		10				10				27		31			30	
Capacity, c (veh/h)		1427				1381				561		798			660	
v/c Ratio		0.01				0.01				0.05		0.04			0.05	
95% Queue Length, Q_{95} (veh)		0.0				0.0				0.1		0.1			0.1	
Control Delay (s/veh)		7.5				7.6				11.7		9.7			10.7	
Level of Service, LOS		A				A				B		A			B	
Approach Delay (s/veh)	0.4				0.5				10.8				10.7			
Approach LOS									B				B			

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2018	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	8	13	29	0	7	9	40	36	2	42	79	44
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	8	7	36	0	4	13	40	18	20	42	40	84
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.007	0.006	0.032	0.000	0.003	0.011	0.036	0.016	0.018	0.037	0.035	0.074
Final Departure Headway, hd (s)	5.70	5.20	4.63	5.77	5.27	4.77	5.54	5.03	4.96	5.39	4.88	4.52
Final Degree of Utilization, x	0.013	0.009	0.046	0.000	0.005	0.017	0.062	0.025	0.028	0.063	0.054	0.105
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	3.40	2.90	2.33	3.47	2.97	2.47	3.24	2.73	2.66	3.09	2.58	2.22

Capacity, Delay and Level of Service

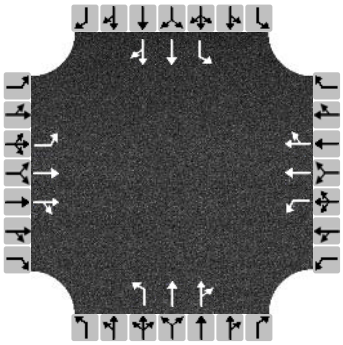
Flow Rate, v (veh/h)	8	7	36	0	4	13	40	18	20	42	40	84
Capacity	631	692	778	0	683	755	650	715	725	668	737	797
95% Queue Length, Q_{95} (veh)	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.2	0.3
Control Delay (s/veh)	8.5	8.0	7.6	8.5	8.0	7.5	8.6	7.9	7.8	8.4	7.9	7.7
Level of Service, LOS	A	A	A		A	A	A	A	A	A	A	A
Approach Delay (s/veh)	7.8			7.6			8.2			8.0		
Approach LOS	A			A			A			A		
Intersection Delay, s/veh | LOS	8.0						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2018	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	19	17	47	1	8	12	25	72	2	15	40	8
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	19	9	56	1	4	16	25	36	38	15	20	28
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.017	0.008	0.049	0.001	0.004	0.014	0.022	0.032	0.034	0.013	0.018	0.025
Final Departure Headway, hd (s)	5.52	5.02	4.42	5.63	5.13	4.61	5.43	4.93	4.90	5.50	5.00	4.80
Final Degree of Utilization, x	0.029	0.012	0.068	0.002	0.006	0.020	0.038	0.049	0.052	0.023	0.028	0.037
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	3.22	2.72	2.12	3.33	2.83	2.31	3.13	2.63	2.60	3.20	2.70	2.50

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	19	9	56	1	4	16	25	36	38	15	20	28
Capacity	653	718	814	639	701	781	663	730	735	654	719	749
95% Queue Length, Q_{95} (veh)	0.1	0.0	0.2	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1
Control Delay (s/veh)	8.4	7.8	7.4	8.3	7.9	7.4	8.3	7.9	7.9	8.3	7.8	7.7
Level of Service, LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Delay (s/veh)	7.7			7.5			8.0			7.9		
Approach LOS	A			A			A			A		
Intersection Delay, s/veh | LOS	7.8						A					

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HCS7 Two-Way Stop-Control Report

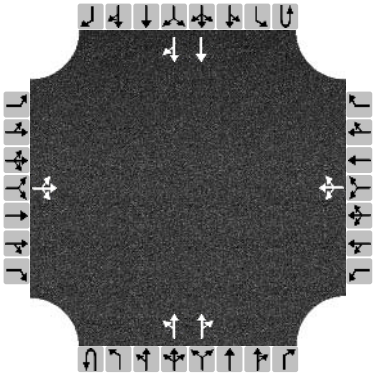
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - AM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		6	13	23		6	3	2		15	1084	51			751	11
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			42				11			15						
Capacity, c (veh/h)			138				75			840						
v/c Ratio			0.30				0.15			0.02						
95% Queue Length, Q_{95} (veh)			1.2				0.5			0.1						
Control Delay (s/veh)			42.1				61.2			9.4						
Level of Service, LOS			E				F			A						
Approach Delay (s/veh)		42.1				61.2				0.3						
Approach LOS		E				F										

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HCS7 Two-Way Stop-Control Report

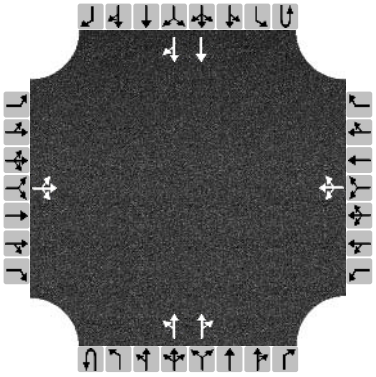
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - PM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		20	8	24		13	2	2		41	716	43			827	71
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			52				17			41						
Capacity, c (veh/h)			157				114			746						
v/c Ratio			0.33				0.15			0.05						
95% Queue Length, Q_{95} (veh)			1.3				0.5			0.2						
Control Delay (s/veh)			38.8				42.1			10.1						
Level of Service, LOS			E				E			B						
Approach Delay (s/veh)		38.8				42.1				0.9						
Approach LOS		E				E										

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HCS7 Two-Way Stop-Control Report

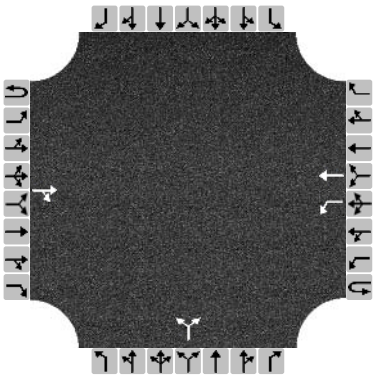
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			728	2		13	953			5		68				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						13					73					
Capacity, c (veh/h)						869					343					
v/c Ratio						0.01					0.21					
95% Queue Length, Q_{95} (veh)						0.0					0.8					
Control Delay (s/veh)						9.2					18.3					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.1					18.3					
Approach LOS											C					

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HCS7 Two-Way Stop-Control Report

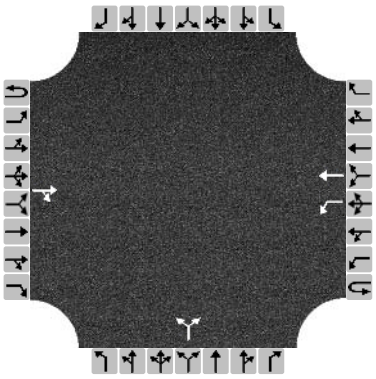
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			611	0		20	632			1		56				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

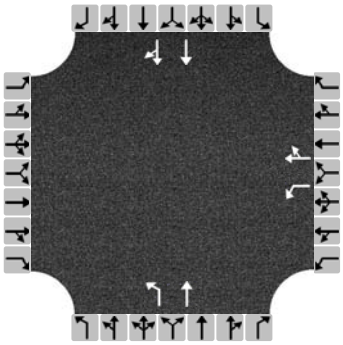
Flow Rate, v (veh/h)						20					57					
Capacity, c (veh/h)						962					477					
v/c Ratio						0.02					0.12					
95% Queue Length, Q_{95} (veh)						0.1					0.4					
Control Delay (s/veh)						8.8					13.6					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.3					13.6					
Approach LOS											B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	W. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing + Project - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				412	18	41	50	40			25	26
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				412	59		50	40		13	39	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.366	0.052		0.044	0.036		0.011	0.034	
Final Departure Headway, hd (s)				5.44	4.45		6.41	5.90		5.97	5.49	
Final Degree of Utilization, x				0.622	0.073		0.089	0.066		0.021	0.059	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.14	2.15		4.11	3.60		3.67	3.19	

Capacity, Delay and Level of Service

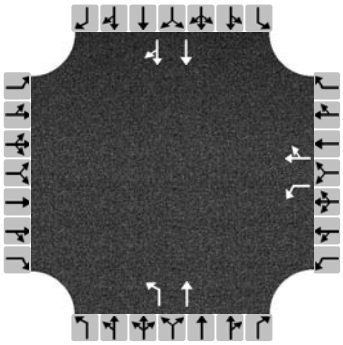
Flow Rate, v (veh/h)				412	59		50	40		13	39	
Capacity				662	809		562	610		603	655	
95% Queue Length, Q_{95} (veh)				4.3	0.2		0.3	0.2		0.1	0.2	
Control Delay (s/veh)				16.7	7.5		9.7	9.0		8.8	8.5	
Level of Service, LOS				C	A		A	A		A	A	
Approach Delay (s/veh)				15.5			9.4			8.6		
Approach LOS				C			A			A		
Intersection Delay, s/veh | LOS	14.0						B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	W. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing + Project - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				101	8	6	193	11			41	31
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				101	14		193	11		21	52	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.090	0.012		0.172	0.010		0.018	0.046	
Final Departure Headway, hd (s)				5.73	4.93		5.44	4.94		5.07	4.65	
Final Degree of Utilization, x				0.161	0.019		0.292	0.015		0.029	0.067	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.43	2.63		3.14	2.64		2.77	2.35	

Capacity, Delay and Level of Service

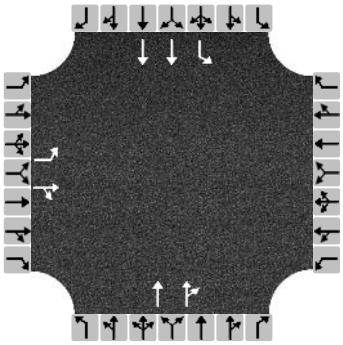
Flow Rate, v (veh/h)				101	14		193	11		21	52	
Capacity				628	730		662	729		710	774	
95% Queue Length, Q_{95} (veh)				0.6	0.1		1.2	0.0		0.1	0.2	
Control Delay (s/veh)				9.5	7.7		10.4	7.7		7.9	7.7	
Level of Service, LOS				A	A		B	A		A	A	
Approach Delay (s/veh)				9.3			10.2			7.7		
Approach LOS				A			B			A		
Intersection Delay, s/veh | LOS	9.5						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	E. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing + Project - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	29	3	251					61	69	47	389	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	29	254					31	100		47	195	195
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.026	0.226					0.027	0.088		0.042	0.173	0.173
Final Departure Headway, hd (s)	6.67	5.47					6.44	5.95		6.29	5.79	5.79
Final Degree of Utilization, x	0.054	0.386					0.055	0.164		0.082	0.313	0.313
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	4.37	3.17					4.14	3.65		3.99	3.49	3.49

Capacity, Delay and Level of Service

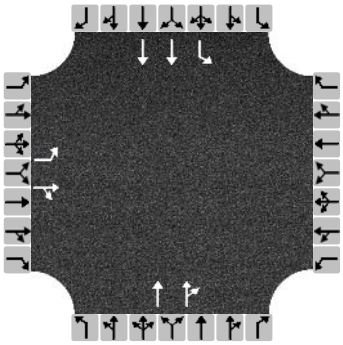
Flow Rate, v (veh/h)	29	254					31	100		47	195	195
Capacity	540	658					559	606		572	622	622
95% Queue Length, Q_{95} (veh)	0.2	1.8					0.2	0.6		0.3	1.3	1.3
Control Delay (s/veh)	9.7	11.6					9.5	9.8		9.6	11.1	11.1
Level of Service, LOS	A	B					A	A		A	B	B
Approach Delay (s/veh)	11.4						9.7			10.9		
Approach LOS	B						A			B		
Intersection Delay, s/veh | LOS	10.9						B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	E. Imperial Highway
Analysis Year	2017	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing + Project - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	6	4	68					197	263	59	86	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	6	72					99	362		59	43	43
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.005	0.064					0.088	0.321		0.052	0.038	0.038
Final Departure Headway, hd (s)	6.58	5.42					5.13	4.62		6.16	5.66	5.66
Final Degree of Utilization, x	0.011	0.108					0.140	0.464		0.101	0.068	0.068
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	4.28	3.12					2.83	2.32		3.86	3.36	3.36

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	6	72					99	362		59	43	43
Capacity	547	665					702	780		585	637	637
95% Queue Length, Q_{95} (veh)	0.0	0.4					0.5	2.5		0.3	0.2	0.2
Control Delay (s/veh)	9.4	8.8					8.7	11.2		9.5	8.8	8.8
Level of Service, LOS	A	A					A	B		A	A	A
Approach Delay (s/veh)	8.8						10.7			9.1		
Approach LOS	A						B			A		
Intersection Delay, s/veh | LOS	10.1						B					

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HCS7 Two-Way Stop-Control Report

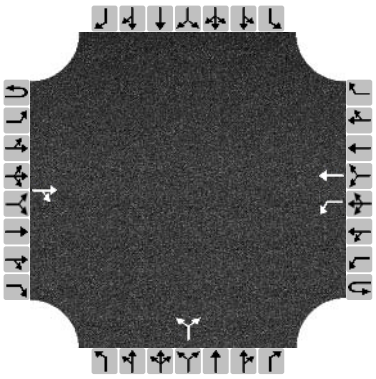
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			793	18		7	926			35		14				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						7					49					
Capacity, c (veh/h)						810					120					
v/c Ratio						0.01					0.41					
95% Queue Length, Q_{95} (veh)						0.0					1.7					
Control Delay (s/veh)						9.5					54.4					
Level of Service, LOS						A					F					
Approach Delay (s/veh)						0.1					54.4					
Approach LOS											F					

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HCS7 Two-Way Stop-Control Report

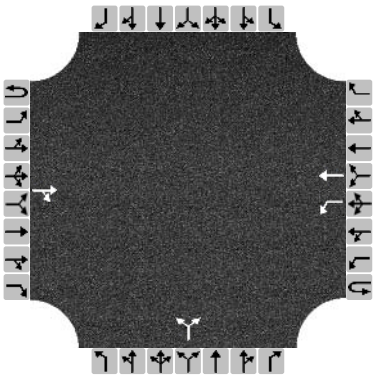
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			646	29		17	645			25		11				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						17					36					
Capacity, c (veh/h)						911					204					
v/c Ratio						0.02					0.18					
95% Queue Length, Q_{95} (veh)						0.1					0.6					
Control Delay (s/veh)						9.0					26.3					
Level of Service, LOS						A					D					
Approach Delay (s/veh)						0.2					26.3					
Approach LOS											D					

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HCS7 Two-Way Stop-Control Report

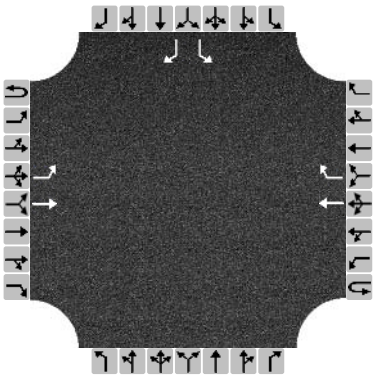
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		237	572				900	265						36		33
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		237												36		33
Capacity, c (veh/h)		596												43		336
v/c Ratio		0.40												0.85		0.10
95% Queue Length, Q_{95} (veh)		1.9												3.3		0.3
Control Delay (s/veh)		15.0												237.5		16.9
Level of Service, LOS		B												F		C
Approach Delay (s/veh)	4.4												132.0			
Approach LOS													F			

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HCS7 Two-Way Stop-Control Report

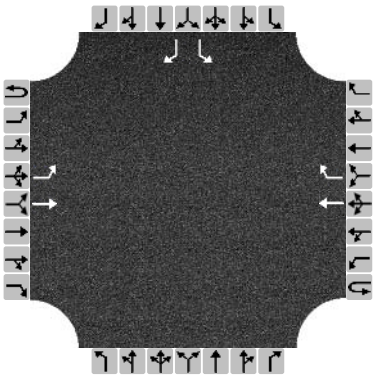
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		39	599				490	44						213		191
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)														0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		39												213		191
Capacity, c (veh/h)		1028												205		576
v/c Ratio		0.04												1.04		0.33
95% Queue Length, Q_{95} (veh)		0.1												9.5		1.4
Control Delay (s/veh)		8.6												122.5		14.3
Level of Service, LOS		A												F		B
Approach Delay (s/veh)		0.5												71.3		
Approach LOS														F		

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HCS7 Two-Way Stop-Control Report

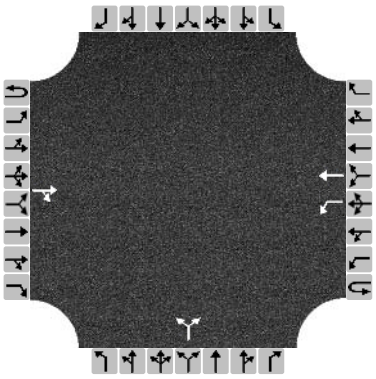
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			603	9		23	1137			28		27				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						23					55					
Capacity, c (veh/h)						961					145					
v/c Ratio						0.02					0.38					
95% Queue Length, Q_{95} (veh)						0.1					1.6					
Control Delay (s/veh)						8.8					44.2					
Level of Service, LOS						A					E					
Approach Delay (s/veh)						0.2				44.2						
Approach LOS										E						

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HCS7 Two-Way Stop-Control Report

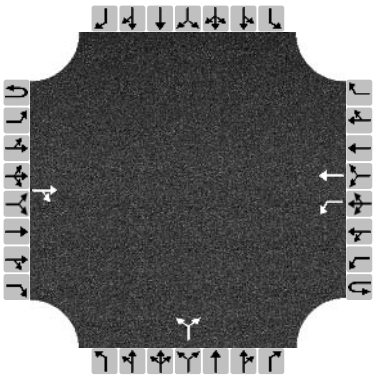
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			802	13		16	532			6		32				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						16					38					
Capacity, c (veh/h)						807					310					
v/c Ratio						0.02					0.12					
95% Queue Length, Q_{95} (veh)						0.1					0.4					
Control Delay (s/veh)						9.5					18.2					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.3					18.2					
Approach LOS											C					

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HCS7 Two-Way Stop-Control Report

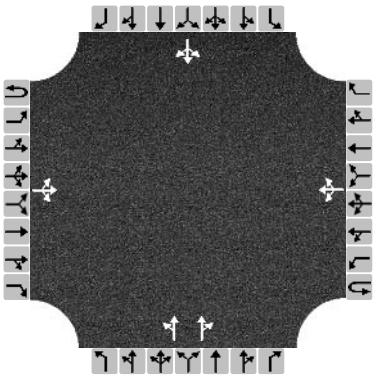
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		34	177	23		8	243	4		30	13	29		4	14	16
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		34				8				37		36			34	
Capacity, c (veh/h)		1312				1365				427		728			549	
v/c Ratio		0.03				0.01				0.09		0.05			0.06	
95% Queue Length, Q_{95} (veh)		0.1				0.0				0.3		0.2			0.2	
Control Delay (s/veh)		7.8				7.7				14.2		10.2			12.0	
Level of Service, LOS		A				A				B		B			B	
Approach Delay (s/veh)		1.3				0.3				12.4				12.0		
Approach LOS										B				B		

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HCS7 Two-Way Stop-Control Report

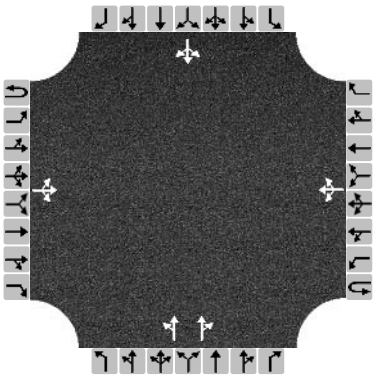
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/3/2018
Analysis Year	2017
Time Analyzed	Existing + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		13	165	21		10	140	7		22	9	26		9	8	28
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

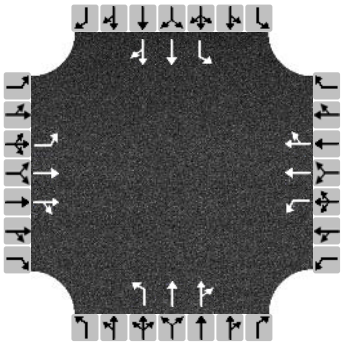
Flow Rate, v (veh/h)		13				10				27		31			45	
Capacity, c (veh/h)		1427				1381				543		797			721	
v/c Ratio		0.01				0.01				0.05		0.04			0.06	
95% Queue Length, Q_{95} (veh)		0.0				0.0				0.2		0.1			0.2	
Control Delay (s/veh)		7.5				7.6				12.0		9.7			10.3	
Level of Service, LOS		A				A				B		A			B	
Approach Delay (s/veh)		0.6				0.5				11.0				10.3		
Approach LOS										B				B		

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2018	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing + Project - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	8	13	120	0	7	9	53	36	2	42	399	44
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	8	7	127	0	4	13	53	18	20	42	200	244
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.007	0.006	0.112	0.000	0.003	0.011	0.047	0.016	0.018	0.037	0.177	0.216
Final Departure Headway, hd (s)	6.55	6.05	5.39	6.82	6.32	5.81	6.46	5.96	5.89	5.75	5.25	5.12
Final Degree of Utilization, x	0.015	0.011	0.189	0.000	0.006	0.020	0.095	0.030	0.033	0.067	0.291	0.347
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	4.25	3.75	3.09	4.52	4.02	3.51	4.16	3.66	3.59	3.45	2.95	2.82

Capacity, Delay and Level of Service

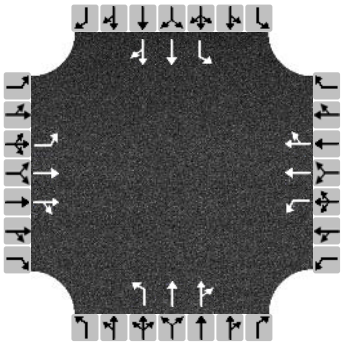
Flow Rate, v (veh/h)	8	7	127	0	4	13	53	18	20	42	200	244
Capacity	549	595	668	0	570	619	557	604	611	626	686	703
95% Queue Length, Q_{95} (veh)	0.0	0.0	0.7	0.0	0.0	0.1	0.3	0.1	0.1	0.2	1.2	1.5
Control Delay (s/veh)	9.4	8.8	9.3	9.5	9.1	8.6	9.8	8.8	8.8	8.9	10.1	10.5
Level of Service, LOS	A	A	A		A	A	A	A	A	A	B	B
Approach Delay (s/veh)	9.3			8.7			9.4			10.2		
Approach LOS	A			A			A			B		
Intersection Delay, s/veh | LOS	9.9						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2018	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Existing + Project - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	19	17	62	1	8	12	98	329	2	15	93	8
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	19	9	71	1	4	16	98	165	167	15	47	55
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.017	0.008	0.063	0.001	0.004	0.014	0.087	0.146	0.148	0.013	0.041	0.048
Final Departure Headway, hd (s)	6.49	5.99	5.37	6.65	6.15	5.63	5.66	5.16	5.15	6.22	5.72	5.62
Final Degree of Utilization, x	0.034	0.014	0.105	0.002	0.007	0.025	0.154	0.236	0.238	0.026	0.074	0.085
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	4.19	3.69	3.07	4.35	3.85	3.33	3.36	2.86	2.85	3.92	3.42	3.32

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	19	9	71	1	4	16	98	165	167	15	47	55
Capacity	555	601	670	541	585	640	636	698	699	578	629	640
95% Queue Length, Q_{95} (veh)	0.1	0.0	0.4	0.0	0.0	0.1	0.5	0.9	0.9	0.1	0.2	0.3
Control Delay (s/veh)	9.4	8.8	8.7	9.4	8.9	8.5	9.4	9.4	9.5	9.1	8.9	8.8
Level of Service, LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Delay (s/veh)	8.8			8.6			9.4			8.9		
Approach LOS	A			A			A			A		
Intersection Delay, s/veh | LOS	9.2						A					

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HCS7 Two-Way Stop-Control Report

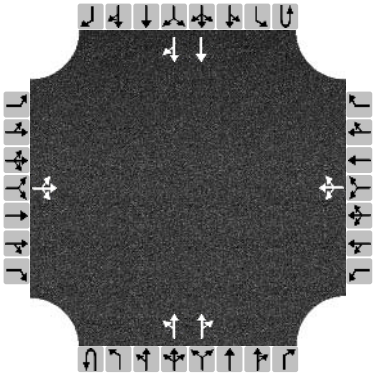
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - AM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		6	14	24		5	3	2		16	948	44			760	11
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			44				10			16						
Capacity, c (veh/h)			159				96			833						
v/c Ratio			0.28				0.10			0.02						
95% Queue Length, Q_{95} (veh)			1.1				0.3			0.1						
Control Delay (s/veh)			36.0				46.9			9.4						
Level of Service, LOS			E				E			A						
Approach Delay (s/veh)		36.0				46.9				0.3						
Approach LOS		E				E										

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HCS7 Two-Way Stop-Control Report

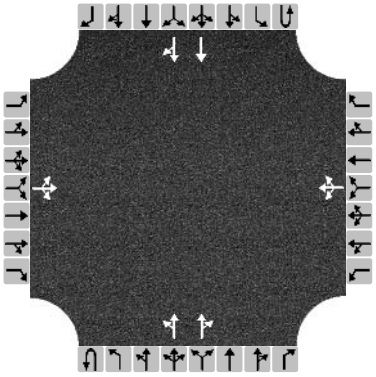
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - PM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		21	8	25		6	2	2		43	726	43			716	74
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			54				10			43						
Capacity, c (veh/h)			184				131			820						
v/c Ratio			0.29				0.08			0.05						
95% Queue Length, Q_{95} (veh)			1.2				0.2			0.2						
Control Delay (s/veh)			32.5				34.8			9.6						
Level of Service, LOS			D				D			A						
Approach Delay (s/veh)		32.5				34.8				0.9						
Approach LOS		D				D										

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HCS7 Two-Way Stop-Control Report

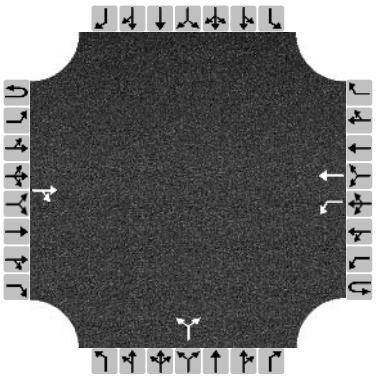
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			534	2		12	962			5		61				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						12					66					
Capacity, c (veh/h)						1026					436					
v/c Ratio						0.01					0.15					
95% Queue Length, Q_{95} (veh)						0.0					0.5					
Control Delay (s/veh)						8.6					14.7					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.1					14.7					
Approach LOS											B					

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HCS7 Two-Way Stop-Control Report

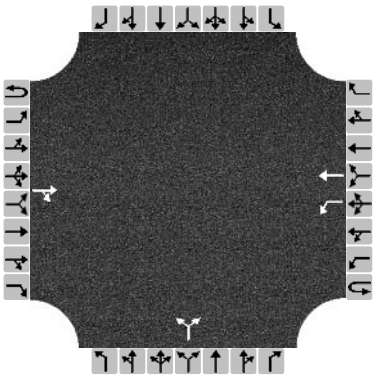
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			609	0		14	483			1		56				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)																
Critical Headway (sec)																
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)																

Delay, Queue Length, and Level of Service

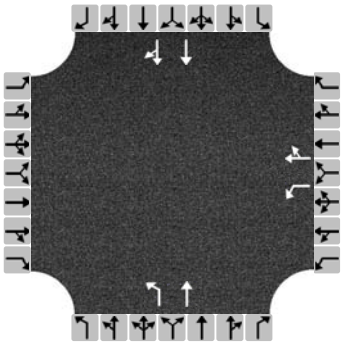
Flow Rate, v (veh/h)						14					57					
Capacity, c (veh/h)						964					483					
v/c Ratio						0.01					0.12					
95% Queue Length, Q_{95} (veh)						0.0					0.4					
Control Delay (s/veh)						8.8					13.5					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.2					13.5					
Approach LOS											B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	W. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				238	19	43	32	42			26	27
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				238	62		32	42		13	40	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.212	0.055		0.028	0.037		0.012	0.036	
Final Departure Headway, hd (s)				5.36	4.38		5.90	5.40		5.43	4.95	
Final Degree of Utilization, x				0.355	0.075		0.052	0.063		0.020	0.055	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.06	2.08		3.60	3.10		3.13	2.65	

Capacity, Delay and Level of Service

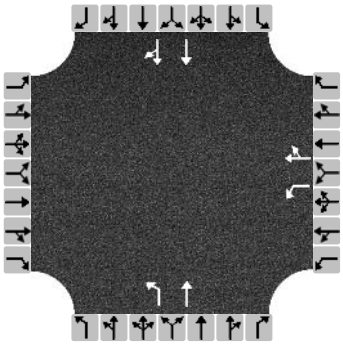
Flow Rate, v (veh/h)				238	62		32	42		13	40	
Capacity				671	822		610	667		663	727	
95% Queue Length, Q_{95} (veh)				1.6	0.2		0.2	0.2		0.1	0.2	
Control Delay (s/veh)				11.0	7.4		8.9	8.5		8.2	7.9	
Level of Service, LOS				B	A		A	A		A	A	
Approach Delay (s/veh)				10.2			8.7			8.0		
Approach LOS				B			A			A		
Intersection Delay, s/veh | LOS	9.7						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	W. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				80	8	6	89	11			43	32
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				80	14		89	11		22	54	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.071	0.012		0.079	0.010		0.019	0.048	
Final Departure Headway, hd (s)				5.46	4.66		5.36	4.86		4.89	4.47	
Final Degree of Utilization, x				0.121	0.018		0.133	0.015		0.029	0.066	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.16	2.36		3.06	2.56		2.59	2.17	

Capacity, Delay and Level of Service

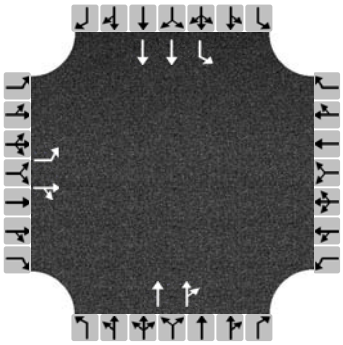
Flow Rate, v (veh/h)				80	14		89	11		22	54	
Capacity				660	773		672	741		736	805	
95% Queue Length, Q_{95} (veh)				0.4	0.1		0.5	0.0		0.1	0.2	
Control Delay (s/veh)				8.9	7.4		8.9	7.6		7.7	7.5	
Level of Service, LOS				A	A		A	A		A	A	
Approach Delay (s/veh)				8.7			8.7			7.6		
Approach LOS				A			A			A		
Intersection Delay, s/veh | LOS	8.4						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	E. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	30	3	119					44	41	49	214	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	30	122					22	63		49	107	107
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.027	0.108					0.020	0.056		0.044	0.095	0.095
Final Departure Headway, hd (s)	5.98	4.80					5.53	5.07		5.67	5.16	5.16
Final Degree of Utilization, x	0.050	0.163					0.034	0.089		0.077	0.153	0.153
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	3.68	2.50					3.23	2.77		3.37	2.86	2.86

Capacity, Delay and Level of Service

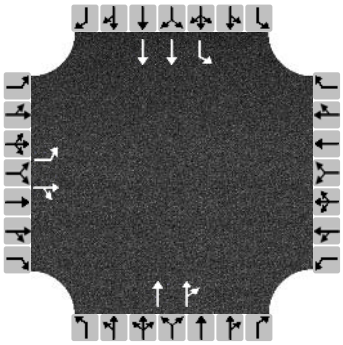
Flow Rate, v (veh/h)	30	122					22	63		49	107	107
Capacity	602	750					651	710		635	697	697
95% Queue Length, Q_{95} (veh)	0.2	0.6					0.1	0.3		0.2	0.5	0.5
Control Delay (s/veh)	9.0	8.4					8.4	8.3		8.8	8.8	8.8
Level of Service, LOS	A	A					A	A		A	A	A
Approach Delay (s/veh)	8.5						8.3			8.8		
Approach LOS	A						A			A		
Intersection Delay, s/veh | LOS	8.6						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	1/24/2018	East/West Street	E. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	6	4	52					93	124	61	64	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	6	56					47	171		61	32	32
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.005	0.050					0.041	0.152		0.054	0.028	0.028
Final Departure Headway, hd (s)	5.93	4.77					4.99	4.48		5.63	5.12	5.12
Final Degree of Utilization, x	0.010	0.074					0.064	0.212		0.095	0.046	0.046
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	3.63	2.47					2.69	2.18		3.33	2.82	2.82

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	6	56					47	171		61	32	32
Capacity	608	754					722	804		640	702	702
95% Queue Length, Q_{95} (veh)	0.0	0.2					0.2	0.8		0.3	0.1	0.1
Control Delay (s/veh)	8.7	7.9					8.0	8.4		8.9	8.1	8.1
Level of Service, LOS	A	A					A	A		A	A	A
Approach Delay (s/veh)	7.9						8.3			8.5		
Approach LOS	A						A			A		
Intersection Delay, s/veh | LOS	8.3						A					

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HCS7 Two-Way Stop-Control Report

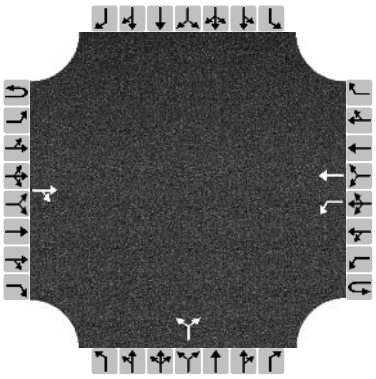
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			594	19		6	933			36		5				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)																
Critical Headway (sec)																
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)																

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						6					41					
Capacity, c (veh/h)						961					137					
v/c Ratio						0.01					0.30					
95% Queue Length, Q_{95} (veh)						0.0					1.2					
Control Delay (s/veh)						8.8					42.3					
Level of Service, LOS						A					E					
Approach Delay (s/veh)						0.1					42.3					
Approach LOS											E					

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HCS7 Two-Way Stop-Control Report

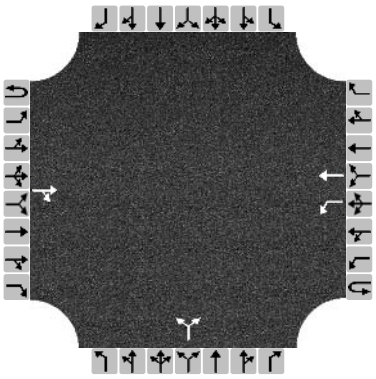
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			643	30		10	488			26		9				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						10					35					
Capacity, c (veh/h)						912					245					
v/c Ratio						0.01					0.14					
95% Queue Length, Q_{95} (veh)						0.0					0.5					
Control Delay (s/veh)						9.0					22.1					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.2					22.1					
Approach LOS											C					

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HCS7 Two-Way Stop-Control Report

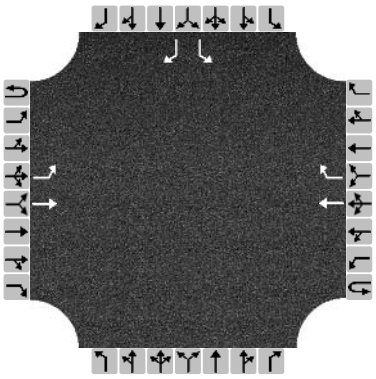
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		1	600				938	1						0		0
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)														0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		1												0		0
Capacity, c (veh/h)		725												126		319
v/c Ratio		0.00												0.00		0.00
95% Queue Length, Q_{95} (veh)		0.0												0.0		0.0
Control Delay (s/veh)		10.0												33.5		16.3
Level of Service, LOS		A												D		C
Approach Delay (s/veh)		0.0														
Approach LOS																

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HCS7 Two-Way Stop-Control Report

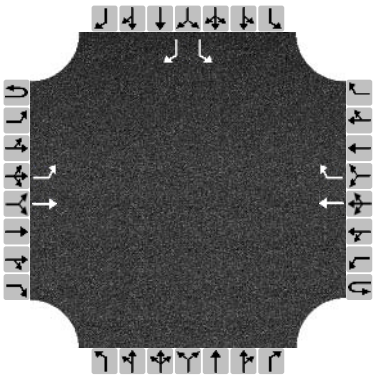
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		8	626				515	9						5		4
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		8												5		4
Capacity, c (veh/h)		1036												214		557
v/c Ratio		0.01												0.02		0.01
95% Queue Length, Q_{95} (veh)		0.0												0.1		0.0
Control Delay (s/veh)		8.5												22.2		11.5
Level of Service, LOS		A												C		B
Approach Delay (s/veh)	0.1												17.4			
Approach LOS													C			

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HCS7 Two-Way Stop-Control Report

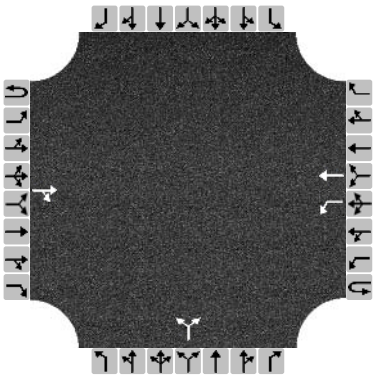
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			596	8		24	919			20		28				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						24					48					
Capacity, c (veh/h)						968					214					
v/c Ratio						0.02					0.22					
95% Queue Length, Q_{95} (veh)						0.1					0.8					
Control Delay (s/veh)						8.8					26.7					
Level of Service, LOS						A					D					
Approach Delay (s/veh)						0.2					26.7					
Approach LOS											D					

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HCS7 Two-Way Stop-Control Report

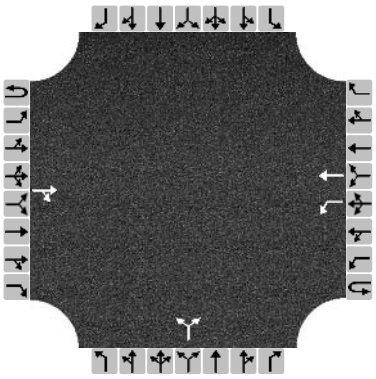
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			628	6		17	524			4		33				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						17					37					
Capacity, c (veh/h)						943					418					
v/c Ratio						0.02					0.09					
95% Queue Length, Q_{95} (veh)						0.1					0.3					
Control Delay (s/veh)						8.9					14.5					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.3					14.5					
Approach LOS											B					

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HCS7 Two-Way Stop-Control Report

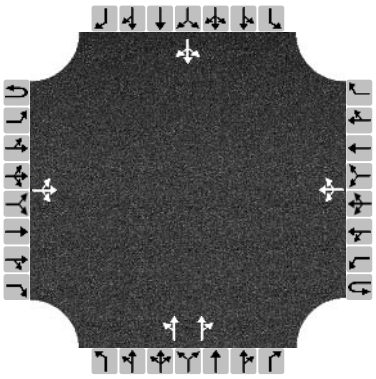
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		17	184	24		8	253	4		31	14	30		4	15	14
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		17				8				38		37			33	
Capacity, c (veh/h)		1301				1355				444		727			547	
v/c Ratio		0.01				0.01				0.09		0.05			0.06	
95% Queue Length, Q_{95} (veh)		0.0				0.0				0.3		0.2			0.2	
Control Delay (s/veh)		7.8				7.7				13.9		10.2			12.0	
Level of Service, LOS		A				A				B		B			B	
Approach Delay (s/veh)		0.7				0.3				12.2				12.0		
Approach LOS										B				B		

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HCS7 Two-Way Stop-Control Report

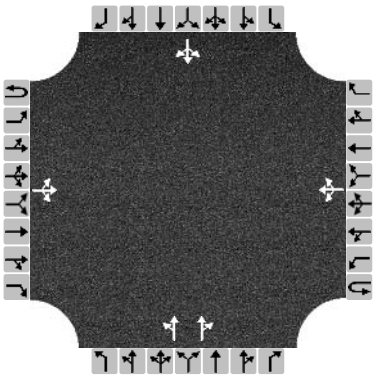
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		11	172	22		10	146	7		23	9	27		9	8	14
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

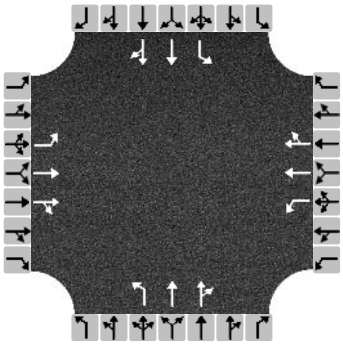
Flow Rate, v (veh/h)		11				10				28		32			31	
Capacity, c (veh/h)		1420				1372				547		791			654	
v/c Ratio		0.01				0.01				0.05		0.04			0.05	
95% Queue Length, Q_{95} (veh)		0.0				0.0				0.2		0.1			0.1	
Control Delay (s/veh)		7.6				7.6				11.9		9.7			10.8	
Level of Service, LOS		A				A				B		A			B	
Approach Delay (s/veh)		0.5				0.5				11.0				10.8		
Approach LOS										B				B		

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	8	13	30	0	7	9	41	37	2	43	82	45
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	8	7	37	0	4	13	41	19	21	43	41	86
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.007	0.006	0.032	0.000	0.003	0.011	0.036	0.016	0.018	0.038	0.036	0.076
Final Departure Headway, hd (s)	5.72	5.22	4.65	5.79	5.29	4.79	5.55	5.05	4.98	5.39	4.89	4.53
Final Degree of Utilization, x	0.013	0.009	0.047	0.000	0.005	0.017	0.063	0.026	0.028	0.064	0.056	0.108
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	3.42	2.92	2.35	3.49	2.99	2.49	3.25	2.75	2.68	3.09	2.59	2.23

Capacity, Delay and Level of Service

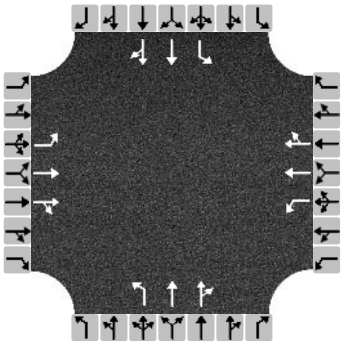
Flow Rate, v (veh/h)	8	7	37	0	4	13	41	19	21	43	41	86
Capacity	629	690	775	0	680	752	649	713	723	668	736	795
95% Queue Length, Q_{95} (veh)	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.2	0.4
Control Delay (s/veh)	8.5	8.0	7.6	8.5	8.0	7.6	8.6	7.9	7.8	8.5	7.9	7.8
Level of Service, LOS	A	A	A		A	A	A	A	A	A	A	A
Approach Delay (s/veh)	7.8			7.7			8.2			8.0		
Approach LOS	A			A			A			A		
Intersection Delay, s/veh | LOS	8.0						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	Amigos Avenue
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	20	18	51	1	8	12	28	80	2	15	52	8
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	20	9	60	1	4	16	28	40	42	15	26	34
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.018	0.008	0.053	0.001	0.004	0.014	0.025	0.036	0.037	0.013	0.023	0.030
Final Departure Headway, hd (s)	5.58	5.08	4.49	5.71	5.21	4.68	5.48	4.98	4.94	5.55	5.05	4.88
Final Degree of Utilization, x	0.031	0.013	0.075	0.002	0.006	0.021	0.043	0.055	0.058	0.023	0.036	0.046
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	3.28	2.78	2.19	3.41	2.91	2.38	3.18	2.68	2.64	3.25	2.75	2.58

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	20	9	60	1	4	16	28	40	42	15	26	34
Capacity	645	709	803	631	691	769	657	723	728	649	713	737
95% Queue Length, Q_{95} (veh)	0.1	0.0	0.2	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1
Control Delay (s/veh)	8.5	7.8	7.5	8.4	7.9	7.5	8.4	8.0	7.9	8.4	7.9	7.8
Level of Service, LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Delay (s/veh)	7.8			7.6			8.1			8.0		
Approach LOS	A			A			A			A		
Intersection Delay, s/veh | LOS	7.9						A					

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HCS7 Two-Way Stop-Control Report

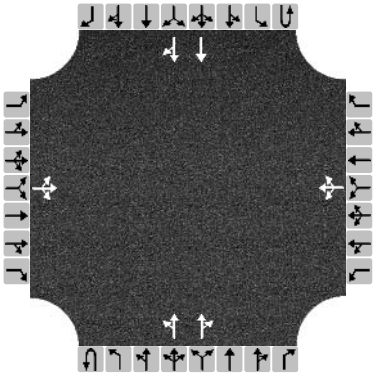
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - AM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		6	14	24		6	3	2		16	1085	53			779	11
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			44				11			16						
Capacity, c (veh/h)			130				71			820						
v/c Ratio			0.34				0.16			0.02						
95% Queue Length, Q_{95} (veh)			1.4				0.5			0.1						
Control Delay (s/veh)			46.1				65.1			9.5						
Level of Service, LOS			E				F			A						
Approach Delay (s/veh)		46.1				65.1				0.4						
Approach LOS		E				F										

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HCS7 Two-Way Stop-Control Report

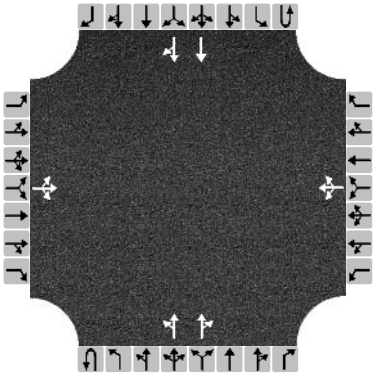
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - PM
Intersection Orientation	North-South
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 7
Jurisdiction	City of South Gate
East/West Street	Monroe Avenue
North/South Street	Garfield Street
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	2	0	0	0	2	0
Configuration			LTR				LTR			LT		TR			T	TR
Volume, V (veh/h)		21	8	25		13	2	2		43	749	45			826	74
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3						
Proportion Time Blocked																
Percent Grade (%)		0				0										
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1						
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16						
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2						
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			54				17			43						
Capacity, c (veh/h)			151				106			744						
v/c Ratio			0.36				0.16			0.06						
95% Queue Length, Q_{95} (veh)			1.5				0.5			0.2						
Control Delay (s/veh)			41.5				45.5			10.1						
Level of Service, LOS			E				E			B						
Approach Delay (s/veh)		41.5				45.5				0.9						
Approach LOS		E				E										

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HCS7 Two-Way Stop-Control Report

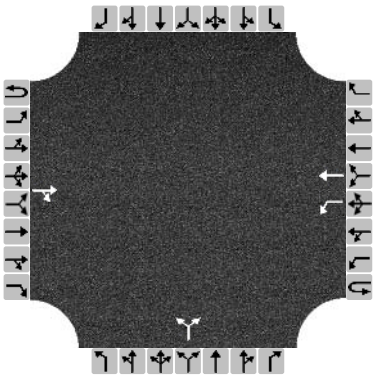
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			753	2		13	992			5		70				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						13					75					
Capacity, c (veh/h)						850					329					
v/c Ratio						0.02					0.23					
95% Queue Length, Q_{95} (veh)						0.0					0.9					
Control Delay (s/veh)						9.3					19.1					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.1					19.1					
Approach LOS											C					

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HCS7 Two-Way Stop-Control Report

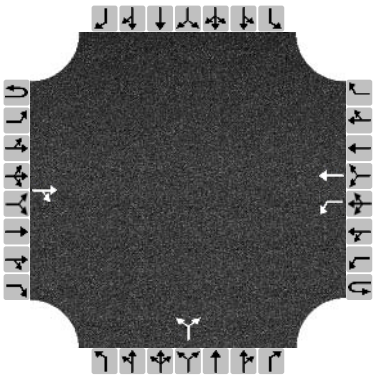
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 8
Jurisdiction	City of South Gate
East/West Street	Gardendale Street
North/South Street	Monroe Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			645	0		21	659			1		58				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)																
Critical Headway (sec)																
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)																

Delay, Queue Length, and Level of Service

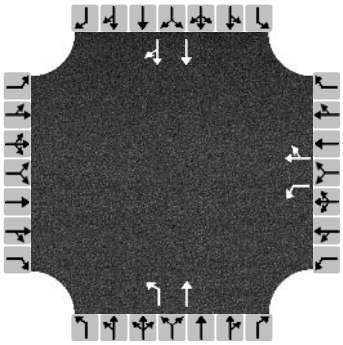
Flow Rate, v (veh/h)						21					59					
Capacity, c (veh/h)						935					456					
v/c Ratio						0.02					0.13					
95% Queue Length, Q_{95} (veh)						0.1					0.4					
Control Delay (s/veh)						8.9					14.1					
Level of Service, LOS						A					B					
Approach Delay (s/veh)						0.3					14.1					
Approach LOS											B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	W. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future + Project - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				421	19	43	51	42			26	27
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				421	62		51	42		13	40	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.374	0.055		0.045	0.037		0.012	0.036	
Final Departure Headway, hd (s)				5.45	4.47		6.44	5.94		6.01	5.53	
Final Degree of Utilization, x				0.638	0.077		0.091	0.069		0.022	0.061	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.15	2.17		4.14	3.64		3.71	3.23	

Capacity, Delay and Level of Service

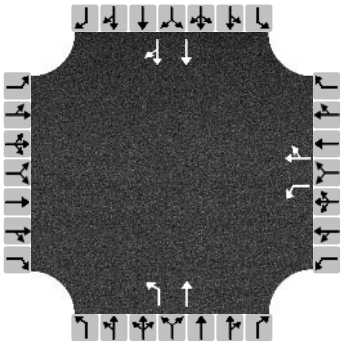
Flow Rate, v (veh/h)				421	62		51	42		13	40	
Capacity				660	806		559	606		599	650	
95% Queue Length, Q_{95} (veh)				4.6	0.2		0.3	0.2		0.1	0.2	
Control Delay (s/veh)				17.2	7.5		9.8	9.1		8.8	8.6	
Level of Service, LOS				C	A		A	A		A	A	
Approach Delay (s/veh)				16.0			9.5			8.7		
Approach LOS				C			A			A		
Intersection Delay, s/veh | LOS	14.4						B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 13
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	W. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future + Project - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume				110	8	6	199	11			43	32
% Thrus in Shared Lane												50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration				L	TR		L	T		T	TR	
Flow Rate, v (veh/h)				110	14		199	11		22	54	
Percent Heavy Vehicles				2	2		2	2		2	2	

Departure Headway and Service Time

Initial Departure Headway, hd (s)				3.20	3.20		3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x				0.098	0.012		0.177	0.010		0.019	0.048	
Final Departure Headway, hd (s)				5.76	4.96		5.47	4.97		5.11	4.69	
Final Degree of Utilization, x				0.176	0.019		0.303	0.015		0.031	0.070	
Move-Up Time, m (s)				2.3	2.3		2.3	2.3		2.3	2.3	
Service Time, ts (s)				3.46	2.66		3.17	2.67		2.81	2.39	

Capacity, Delay and Level of Service

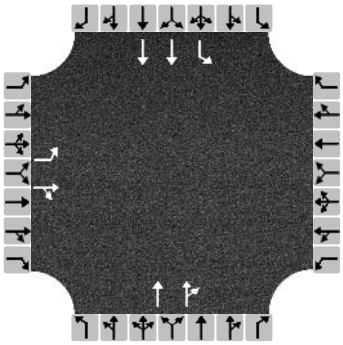
Flow Rate, v (veh/h)				110	14		199	11		22	54	
Capacity				625	726		658	724		704	767	
95% Queue Length, Q_{95} (veh)				0.6	0.1		1.3	0.0		0.1	0.2	
Control Delay (s/veh)				9.7	7.8		10.5	7.7		8.0	7.7	
Level of Service, LOS				A	A		B	A		A	A	
Approach Delay (s/veh)				9.5			10.4			7.8		
Approach LOS				A			B			A		
Intersection Delay, s/veh | LOS	9.6						A					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	E. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future + Project - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	30	3	256					63	71	49	397	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	30	259					32	103		49	199	199
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.027	0.230					0.028	0.091		0.044	0.176	0.176
Final Departure Headway, hd (s)	6.71	5.52					6.48	5.99		6.33	5.82	5.82
Final Degree of Utilization, x	0.056	0.397					0.057	0.171		0.086	0.321	0.321
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	4.41	3.22					4.18	3.69		4.03	3.52	3.52

Capacity, Delay and Level of Service

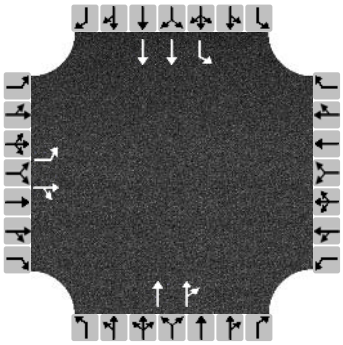
Flow Rate, v (veh/h)	30	259					32	103		49	199	199
Capacity	536	652					555	601		569	618	618
95% Queue Length, Q_{95} (veh)	0.2	1.9					0.2	0.6		0.3	1.4	1.4
Control Delay (s/veh)	9.8	11.8					9.6	9.9		9.6	11.3	11.3
Level of Service, LOS	A	B					A	A		A	B	B
Approach Delay (s/veh)	11.6						9.8			11.1		
Approach LOS	B						A			B		
Intersection Delay, s/veh | LOS	11.1						B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 14
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/4/2018	East/West Street	E. Imperial Highway
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future + Project - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	6	4	75					203	271	61	94	
% Thrus in Shared Lane									50			
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	TR					T	TR		L	T	T
Flow Rate, v (veh/h)	6	79					102	373		61	47	47
Percent Heavy Vehicles	2	2					2	2		2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20					3.20	3.20		3.20	3.20	3.20
Initial Degree of Utilization, x	0.005	0.070					0.090	0.331		0.054	0.042	0.042
Final Departure Headway, hd (s)	6.65	5.48					5.18	4.67		6.22	5.71	5.71
Final Degree of Utilization, x	0.011	0.120					0.146	0.483		0.105	0.075	0.075
Move-Up Time, m (s)	2.3	2.3					2.3	2.3		2.3	2.3	2.3
Service Time, ts (s)	4.35	3.18					2.88	2.37		3.92	3.41	3.41

Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	6	79					102	373		61	47	47
Capacity	541	657					695	771		579	630	630
95% Queue Length, Q_{95} (veh)	0.0	0.4					0.5	2.7		0.4	0.2	0.2
Control Delay (s/veh)	9.4	8.9					8.8	11.7		9.6	8.9	8.9
Level of Service, LOS	A	A					A	B		A	A	A
Approach Delay (s/veh)	9.0						11.0			9.2		
Approach LOS	A						B			A		
Intersection Delay, s/veh | LOS	10.4						B					

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HCS7 Two-Way Stop-Control Report

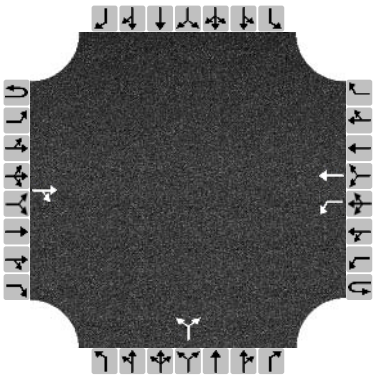
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			822	19		7	964			36		14				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						7					50					
Capacity, c (veh/h)						789					109					
v/c Ratio						0.01					0.46					
95% Queue Length, Q_{95} (veh)						0.0					2.0					
Control Delay (s/veh)						9.6					63.7					
Level of Service, LOS						A					F					
Approach Delay (s/veh)						0.1					63.7					
Approach LOS											F					

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HCS7 Two-Way Stop-Control Report

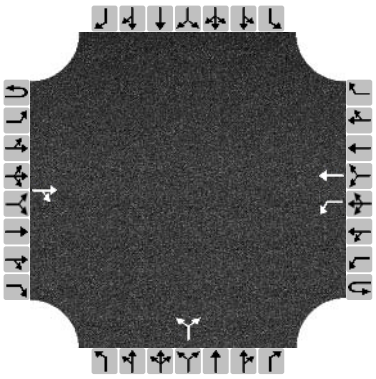
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 15
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Industrial Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			681	30		17	672			26		11				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						17					37					
Capacity, c (veh/h)						883					187					
v/c Ratio						0.02					0.20					
95% Queue Length, Q_{95} (veh)						0.1					0.7					
Control Delay (s/veh)						9.2					28.9					
Level of Service, LOS						A					D					
Approach Delay (s/veh)						0.2					28.9					
Approach LOS											D					

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HCS7 Two-Way Stop-Control Report

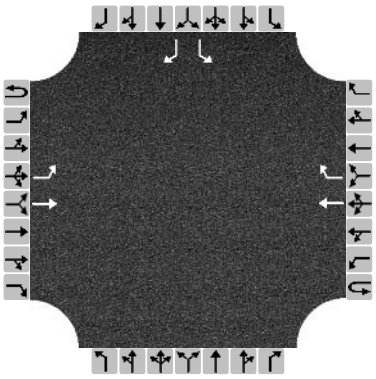
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		238	600				938	266						36		33
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)														0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		238												36		33
Capacity, c (veh/h)		576												38		319
v/c Ratio		0.41												0.96		0.10
95% Queue Length, Q_{95} (veh)		2.0												3.6		0.3
Control Delay (s/veh)		15.6												294.5		17.6
Level of Service, LOS		C												F		C
Approach Delay (s/veh)		4.4												162.1		
Approach LOS														F		

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HCS7 Two-Way Stop-Control Report

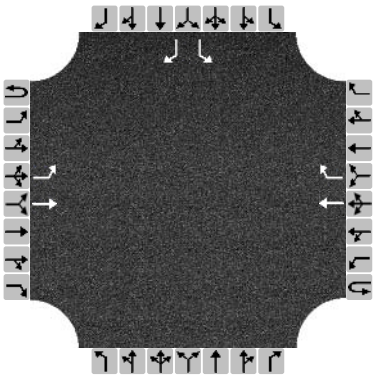
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 16
Jurisdiction	Downey/South Gate/LAC
East/West Street	Gardendale Street
North/South Street	Erickson Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	1	0	0	0	1	1		0	0	0		1	0	1
Configuration		L	T				T	R						L		R
Volume, V (veh/h)		47	626				515	53						218		195
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)														0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		47												218		195
Capacity, c (veh/h)		998												185		557
v/c Ratio		0.05												1.18		0.35
95% Queue Length, Q_{95} (veh)		0.1												11.4		1.6
Control Delay (s/veh)		8.8												174.6		14.9
Level of Service, LOS		A												F		B
Approach Delay (s/veh)		0.6												99.2		
Approach LOS														F		

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HCS7 Two-Way Stop-Control Report

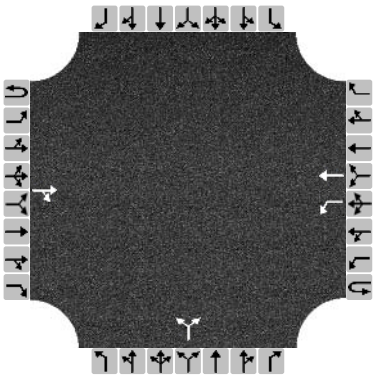
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			631	9		24	1175			29		28				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						24					57					
Capacity, c (veh/h)						939					133					
v/c Ratio						0.03					0.43					
95% Queue Length, Q_{95} (veh)						0.1					1.9					
Control Delay (s/veh)						8.9					51.2					
Level of Service, LOS						A					F					
Approach Delay (s/veh)						0.2					51.2					
Approach LOS											F					

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HCS7 Two-Way Stop-Control Report

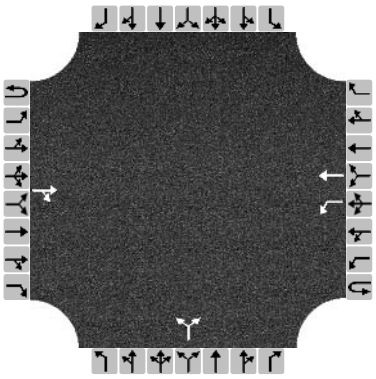
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 17
Jurisdiction	Downey / South Gate
East/West Street	Gardendale Street
North/South Street	Arizona Avenue
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	1	1	0		0	1	0		0	0	0
Configuration				TR		L	T				LR					
Volume, V (veh/h)			834	13		17	566			6		33				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13				6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						17					39					
Capacity, c (veh/h)						785					293					
v/c Ratio						0.02					0.13					
95% Queue Length, Q_{95} (veh)						0.1					0.5					
Control Delay (s/veh)						9.7					19.1					
Level of Service, LOS						A					C					
Approach Delay (s/veh)						0.3					19.1					
Approach LOS											C					

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HCS7 Two-Way Stop-Control Report

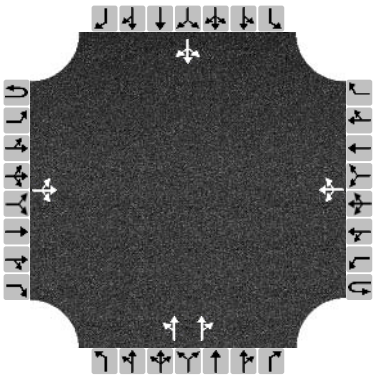
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - AM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		35	184	24		8	253	4		31	14	30		4	15	17
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)																
Critical Headway (sec)																
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)																

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		35				8				38		37			36	
Capacity, c (veh/h)		1301				1355				413		713			537	
v/c Ratio		0.03				0.01				0.09		0.05			0.07	
95% Queue Length, Q_{95} (veh)		0.1				0.0				0.3		0.2			0.2	
Control Delay (s/veh)		7.8				7.7				14.6		10.3			12.2	
Level of Service, LOS		A				A				B		B			B	
Approach Delay (s/veh)		1.3				0.3				12.7				12.2		
Approach LOS										B				B		

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HCS7 Two-Way Stop-Control Report

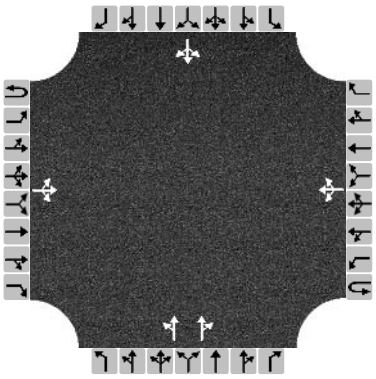
General Information

Analyst	JAS
Agency/Co.	LLG Engineers
Date Performed	10/4/2018
Analysis Year	2021
Time Analyzed	Future + Project - PM
Intersection Orientation	East-West
Project Description	Rancho Los Amigos South Campus

Site Information

Intersection	Int. 18
Jurisdiction	City of South Gate
East/West Street	Main Street
North/South Street	Industrial-Arizona
Peak Hour Factor	1.00
Analysis Time Period (hrs)	0.25

Lanes



Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	2	0		0	1	0
Configuration			LTR				LTR			LT		TR			LTR	
Volume, V (veh/h)		14	172	22		10	146	7		23	9	27		9	8	29
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized		No				No				No				No		
Median Type/Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.13				4.13				7.13	6.53	6.23		7.13	6.53	6.23
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.23				2.23				3.53	4.03	3.33		3.53	4.03	3.33

Delay, Queue Length, and Level of Service

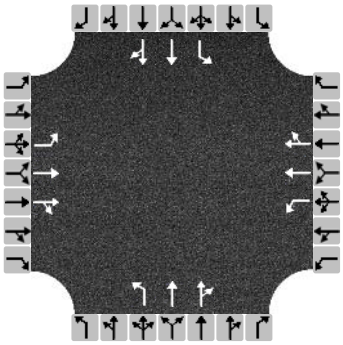
Flow Rate, v (veh/h)		14				10				28		32			46	
Capacity, c (veh/h)		1420				1372				529		789			712	
v/c Ratio		0.01				0.01				0.05		0.04			0.06	
95% Queue Length, Q_{95} (veh)		0.0				0.0				0.2		0.1			0.2	
Control Delay (s/veh)		7.6				7.6				12.2		9.8			10.4	
Level of Service, LOS		A				A				B		A			B	
Approach Delay (s/veh)		0.6				0.5				11.1				10.4		
Approach LOS										B				B		

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future + Project - AM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	8	13	121	0	7	9	54	81	2	43	402	45
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	8	7	128	0	4	13	54	41	43	43	201	246
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.007	0.006	0.113	0.000	0.003	0.011	0.048	0.036	0.038	0.038	0.179	0.219
Final Departure Headway, hd (s)	6.71	6.21	5.55	6.98	6.48	5.97	6.50	6.00	5.97	5.87	5.37	5.24
Final Degree of Utilization, x	0.015	0.011	0.196	0.000	0.006	0.021	0.098	0.068	0.070	0.070	0.300	0.358
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	4.41	3.91	3.25	4.68	4.18	3.67	4.20	3.70	3.67	3.57	3.07	2.94

Capacity, Delay and Level of Service

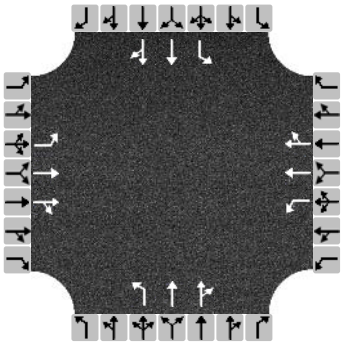
Flow Rate, v (veh/h)	8	7	128	0	4	13	54	41	43	43	201	246
Capacity	537	580	649	0	556	603	554	600	603	613	670	687
95% Queue Length, Q_{95} (veh)	0.0	0.0	0.7	0.0	0.0	0.1	0.3	0.2	0.2	0.2	1.3	1.6
Control Delay (s/veh)	9.5	9.0	9.6	9.7	9.2	8.8	9.9	9.1	9.1	9.0	10.4	10.8
Level of Service, LOS	A	A	A		A	A	A	A	A	A	B	B
Approach Delay (s/veh)	9.6			8.9			9.4			10.5		
Approach LOS	A			A			A			B		
Intersection Delay, s/veh | LOS	10.1						B					

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HCS7 All-Way Stop Control Report

General Information		Site Information	
Analyst	JAS	Intersection	Int. 27
Agency/Co.	LLG Engineers	Jurisdiction	Downey / LA County
Date Performed	10/3/2018	East/West Street	Amigos Avenue
Analysis Year	2021	North/South Street	Erickson Avenue
Analysis Time Period (hrs)	0.25	Peak Hour Factor	1.00
Time Analyzed	Future + Project - PM		
Project Description	Rancho Los Amigos South Campus		

Lanes



Vehicle Volume and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume	20	18	66	1	8	12	101	337	2	15	105	8
% Thrus in Shared Lane			50			50			50			50
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	L	T	TR	L	T	TR	L	T	TR	L	T	TR
Flow Rate, v (veh/h)	20	9	75	1	4	16	101	169	171	15	53	61
Percent Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2

Departure Headway and Service Time

Initial Departure Headway, hd (s)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
Initial Degree of Utilization, x	0.018	0.008	0.067	0.001	0.004	0.014	0.090	0.150	0.152	0.013	0.047	0.054
Final Departure Headway, hd (s)	6.55	6.05	5.44	6.73	6.23	5.71	5.71	5.21	5.20	6.27	5.77	5.68
Final Degree of Utilization, x	0.036	0.015	0.113	0.002	0.007	0.025	0.160	0.244	0.246	0.026	0.084	0.095
Move-Up Time, m (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Service Time, ts (s)	4.25	3.75	3.14	4.43	3.93	3.41	3.41	2.91	2.90	3.97	3.47	3.38

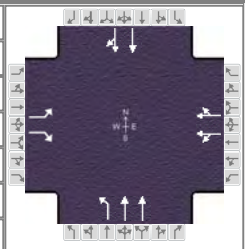
Capacity, Delay and Level of Service

Flow Rate, v (veh/h)	20	9	75	1	4	16	101	169	171	15	53	61
Capacity	549	595	662	535	578	631	630	691	692	574	624	634
95% Queue Length, Q_{95} (veh)	0.1	0.0	0.4	0.0	0.0	0.1	0.6	1.0	1.0	0.1	0.3	0.3
Control Delay (s/veh)	9.5	8.8	8.8	9.4	9.0	8.6	9.5	9.6	9.6	9.1	9.0	9.0
Level of Service, LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Delay (s/veh)	9.0			8.7			9.6			9.0		
Approach LOS	A			A			A			A		
Intersection Delay, s/veh | LOS	9.3						A					

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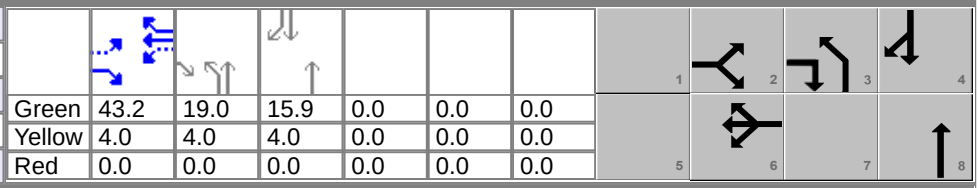
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing - AM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	9		671	52	506	35	338	519			452	15

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	43.2	19.0	15.9	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		47.2		47.2	23.0	42.8		19.9
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					18.3	10.6		13.8
Green Extension Time (g_e), s		0.0		0.0	0.6	2.1		2.0
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.00

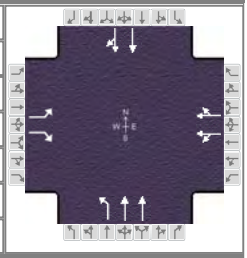
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	9		671	309		284	338	519			234	233
Adjusted Saturation Flow Rate (*s*), veh/h/ln	878		1610	1825		1691	1810	1809			1900	1878
Queue Service Time (g_s), s	0.6		19.9	0.0		9.4	16.3	8.6			11.8	10.5
Cycle Queue Clearance Time (g_c), s	10.0		19.9	9.1		9.4	16.3	8.6			11.8	10.5
Green Ratio (*g/C*)	0.48		0.69	0.48		0.48	0.21	0.43			0.18	0.18
Capacity (*c*), veh/h	409		1112	922		811	381	1560			335	331
Volume-to-Capacity Ratio (*X*)	0.022		0.604	0.336		0.349	0.887	0.333			0.700	0.702
Back of Queue (*Q*), ft/ln (95 th percentile)	5.6		252.9	176.1		163.7	290.3	151.9			208.8	207.7
Back of Queue (*Q*), veh/ln (95 th percentile)	0.2		10.1	7.0		6.5	11.6	6.1			8.4	8.3
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	17.8		7.4	14.5		14.6	34.5	17.0			34.8	34.8
Incremental Delay (d_2), s/veh	0.1		2.4	1.0		1.2	2.8	0.0			1.0	1.0
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	17.9		9.8	15.5		15.8	37.3	17.0			35.8	35.9
Level of Service (LOS)	B		A	B		B	D	B			D	D
Approach Delay, s/veh / LOS	9.9		A	15.7		B	25.0		C	35.8		D
Intersection Delay, s/veh / LOS	20.9						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.26	B	2.09	B	1.68	B	2.13	B
Bicycle LOS Score / LOS		F	0.98	A	1.19	A	0.87	A

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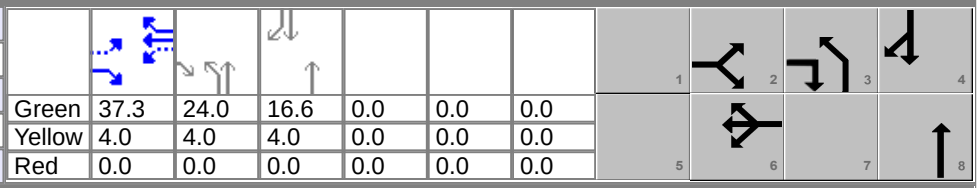
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing - PM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	17		522	55	397	53	440	680			474	9

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	37.3	24.0	16.6	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		41.3		41.3	28.0	48.7		20.6
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					23.2	12.5		14.3
Green Extension Time (g_e), s		0.0		0.0	0.9	2.6		2.3
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.03

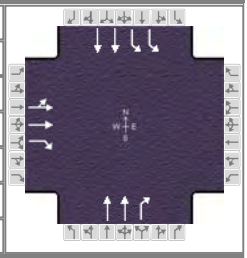
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	17		522	265		240	440	680			242	241
Adjusted Saturation Flow Rate (*s*), veh/h/ln	955		1610	1806		1663	1810	1809			1900	1887
Queue Service Time (g_s), s	1.1		13.7	1.1		8.9	21.2	10.5			12.3	10.7
Cycle Queue Clearance Time (g_c), s	10.0		13.7	8.6		8.9	21.2	10.5			12.3	10.7
Green Ratio (*g/C*)	0.41		0.68	0.41		0.41	0.27	0.50			0.18	0.18
Capacity (*c*), veh/h	382		1098	797		690	484	1796			351	349
Volume-to-Capacity Ratio (*X*)	0.045		0.475	0.332		0.348	0.910	0.379			0.690	0.691
Back of Queue (*Q*), ft/ln (95 th percentile)	11.9		188.1	170.7		157.5	355.3	179.5			212.5	211.9
Back of Queue (*Q*), veh/ln (95 th percentile)	0.5		7.5	6.8		6.3	14.2	7.2			8.5	8.5
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	21.4		6.7	17.9		18.0	31.9	14.1			34.3	34.3
Incremental Delay (d_2), s/veh	0.2		1.5	1.1		1.4	2.8	0.0			0.9	0.9
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	21.6		8.2	19.0		19.4	34.8	14.1			35.2	35.2
Level of Service (LOS)	C		A	B		B	C	B			D	D
Approach Delay, s/veh / LOS	8.6		A	19.2		B	22.2		C	35.2		D
Intersection Delay, s/veh / LOS	21.2						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.27	B	2.10	B	1.67	B	2.12	B
Bicycle LOS Score / LOS		F	0.90	A	1.41	A	0.89	A

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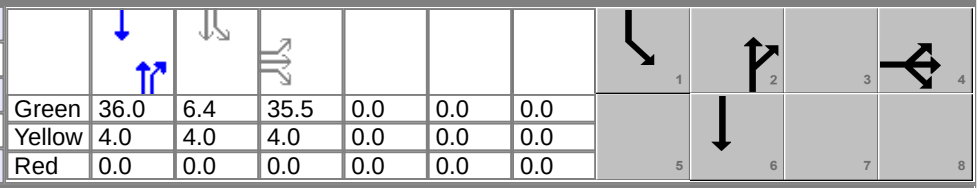
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Existing - AM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	356	699	567					845	322	175	992	

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	36.0	6.4	35.5	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		39.5				40.0	10.4	50.5
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		31.6					6.4	
Green Extension Time (g_e), s		3.9				0.0	0.2	0.0
Phase Call Probability		1.00					0.99	
Max Out Probability		0.00					1.00	

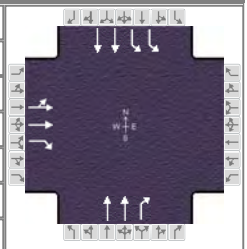
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	548	507	567					845	322	175	992	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1840	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	23.1	19.8	29.6					16.5	13.5	4.4	16.5	
Cycle Queue Clearance Time (g_c), s	23.1	19.8	29.6					16.5	13.5	4.4	16.5	
Green Ratio (*g/C*)	0.39	0.39	0.39					0.40	0.40	0.14	0.52	
Capacity (*c*), veh/h	727	750	636					1448	644	251	1867	
Volume-to-Capacity Ratio (*X*)	0.754	0.676	0.892					0.584	0.500	0.696	0.531	
Back of Queue (*Q*), ft/ln (95 th percentile)	363.6	328.8	406					280.1	225.9	85.3	264.6	
Back of Queue (*Q*), veh/ln (95 th percentile)	14.5	13.2	16.2					11.2	9.0	3.4	10.6	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	23.5	22.5	25.4					21.1	20.2	40.8	14.5	
Incremental Delay (d_2), s/veh	0.6	0.4	1.8					1.7	2.8	1.3	1.1	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	24.1	22.9	27.2					22.8	23.0	42.1	15.6	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	24.8	C		0.0			22.9	C		19.6	B	
Intersection Delay, s/veh / LOS	22.7						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.83	B			1.45	A	1.45	A

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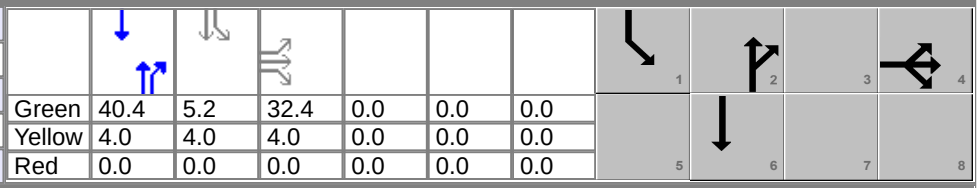
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Existing - PM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	217	777	512					989	467	81	651	

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	40.4	5.2	32.4	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		36.4				44.4	9.2	53.6
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		28.9					4.0	
Green Extension Time (g_e), s		3.5				0.0	1.0	0.0
Phase Call Probability		1.00					0.87	
Max Out Probability		0.01					0.39	

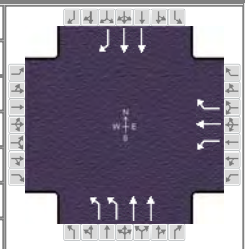
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	517	477	512					989	467	81	651	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1861	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	22.2	19.3	26.9					18.7	20.2	2.0	8.9	
Cycle Queue Clearance Time (g_c), s	22.2	19.3	26.9					18.7	20.2	2.0	8.9	
Green Ratio (*g/C*)	0.36	0.36	0.36					0.45	0.45	0.22	0.55	
Capacity (*c*), veh/h	669	683	579					1625	723	203	1995	
Volume-to-Capacity Ratio (*X*)	0.772	0.698	0.884					0.609	0.646	0.398	0.326	
Back of Queue (*Q*), ft/ln (95 th percentile)	359.6	326	379.1					304.2	312.5	38.7	150.3	
Back of Queue (*Q*), veh/ln (95 th percentile)	14.4	13.0	15.2					12.2	12.5	1.5	6.0	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	25.6	24.6	27.1					18.8	19.2	40.9	11.0	
Incremental Delay (d_2), s/veh	0.7	0.5	1.8					1.7	4.4	0.5	0.4	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	26.3	25.1	28.9					20.5	23.6	41.4	11.5	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	26.8	C		0.0			21.5	C		14.8	B	
Intersection Delay, s/veh / LOS	22.3						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.73	B			1.69	B	1.09	A

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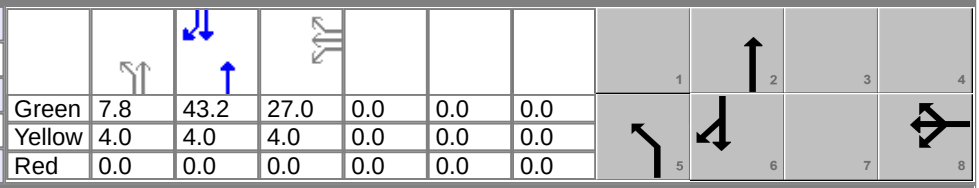
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing - AM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				216	504	354	213	1001			801	526

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	7.8	43.2	27.0	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				31.0	11.8	59.0		47.2
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				24.7	7.3			
Green Extension Time (g_e), s				2.3	0.5	0.0		0.0
Phase Call Probability				1.00	1.00			
Max Out Probability				0.00	0.00			

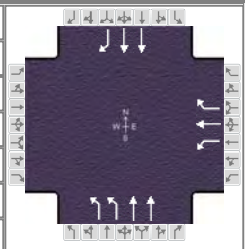
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				216	504	354	213	1001			801	526
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				8.5	22.7	17.7	5.3	13.4			13.3	22.7
Cycle Queue Clearance Time (g_c), s				8.5	22.7	17.7	5.3	13.4			13.3	22.7
Green Ratio (*g/C*)				0.30	0.30	0.30	0.21	0.61			0.48	0.48
Capacity (*c*), veh/h				543	570	483	303	2210			1737	773
Volume-to-Capacity Ratio (*X*)				0.398	0.884	0.732	0.703	0.453			0.461	0.680
Back of Queue (*Q*), ft/ln (95 th percentile)				160	384.8	271.3	102.8	209.6			226.8	339.8
Back of Queue (*Q*), veh/ln (95 th percentile)				6.4	15.4	10.9	4.1	8.4			9.1	13.6
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				25.0	30.0	28.2	40.0	9.4			15.6	18.1
Incremental Delay (d_2), s/veh				0.2	1.9	0.8	1.1	0.7			0.9	4.8
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				25.2	31.8	29.1	41.1	10.1			16.5	22.8
Level of Service (LOS)				C	C	C	D	B			B	C
Approach Delay, s/veh / LOS	0.0			29.6		C	15.5		B	19.0		B
Intersection Delay, s/veh / LOS	21.0						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.87	B	1.67	B
Bicycle LOS Score / LOS			2.26	B	1.49	A	1.58	B

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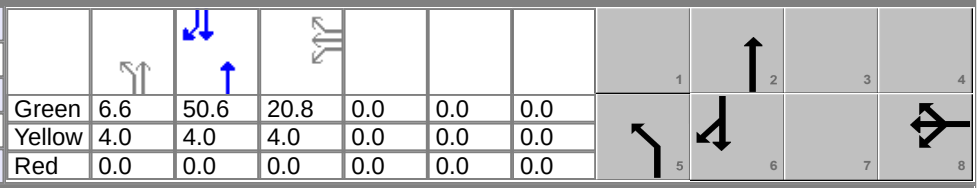
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing - PM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				214	363	317	174	1047			781	367

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	6.6	50.6	20.8	0.0	0.0	0.0			
Yellow	4.0	4.0	4.0	0.0	0.0	0.0			
Red	0.0	0.0	0.0	0.0	0.0	0.0			

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				24.8	10.6	65.2		54.6
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				19.0	6.3			
Green Extension Time (g_e), s				1.8	0.4	0.0		0.0
Phase Call Probability				1.00	0.99			
Max Out Probability				0.00	0.00			

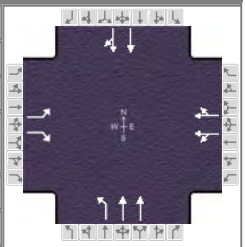
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				214	363	317	174	1047			781	367
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				9.3	16.3	17.0	4.3	11.7			10.9	11.6
Cycle Queue Clearance Time (g_c), s				9.3	16.3	17.0	4.3	11.7			10.9	11.6
Green Ratio (*g/C*)				0.23	0.23	0.23	0.25	0.68			0.56	0.56
Capacity (*c*), veh/h				418	439	372	259	2460			2032	904
Volume-to-Capacity Ratio (*X*)				0.512	0.827	0.852	0.671	0.426			0.384	0.406
Back of Queue (*Q*), ft/ln (95 th percentile)				177.6	296.8	269.7	84.4	171.3			182.7	183.2
Back of Queue (*Q*), veh/ln (95 th percentile)				7.1	11.9	10.8	3.4	6.9			7.3	7.3
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				30.2	32.9	33.1	40.6	6.5			11.0	11.2
Incremental Delay (d_2), s/veh				0.4	1.5	2.2	1.1	0.5			0.6	1.4
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				30.5	34.4	35.3	41.7	7.0			11.6	12.5
Level of Service (LOS)				C	C	D	D	A			B	B
Approach Delay, s/veh / LOS	0.0			33.8	C		12.0	B		11.9	B	
Intersection Delay, s/veh / LOS	17.9						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.86	B	1.66	B
Bicycle LOS Score / LOS			1.96	B	1.49	A	1.43	A

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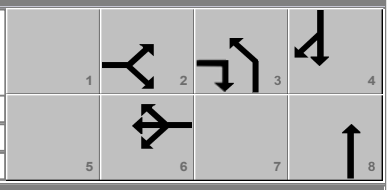
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing with Project - AM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	9		671	98	506	35	338	519			452	15

Signal Information													
Cycle, s	90.0	Reference Phase	2										
Offset, s	0	Reference Point	End										
Uncoordinated	No	Simult. Gap E/W	On	Green	43.2	19.0	15.9	0.0	0.0	0.0			
Force Mode	Fixed	Simult. Gap N/S	On	Yellow	4.0	4.0	4.0	0.0	0.0	0.0			
				Red	0.0	0.0	0.0	0.0	0.0	0.0			



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		47.2		47.2	23.0	42.8		19.9
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					18.3	10.6		13.8
Green Extension Time (g_e), s		0.0		0.0	0.6	2.1		2.0
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.00

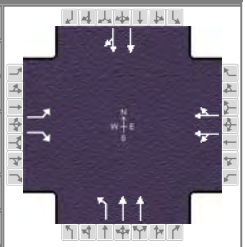
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	9		671	329		310	338	519			234	233
Adjusted Saturation Flow Rate (*s*), veh/h/ln	878		1610	1753		1695	1810	1809			1900	1878
Queue Service Time (g_s), s	0.6		19.9	5.7		10.5	16.3	8.6			11.8	10.5
Cycle Queue Clearance Time (g_c), s	11.1		19.9	10.4		10.5	16.3	8.6			11.8	10.5
Green Ratio (*g/C*)	0.48		0.69	0.48		0.48	0.21	0.43			0.18	0.18
Capacity (*c*), veh/h	399		1112	893		813	381	1560			335	331
Volume-to-Capacity Ratio (*X*)	0.023		0.604	0.368		0.381	0.887	0.333			0.700	0.702
Back of Queue (*Q*), ft/ln (95 th percentile)	5.8		252.9	190.9		182.8	290.3	151.9			208.8	207.7
Back of Queue (*Q*), veh/ln (95 th percentile)	0.2		10.1	7.6		7.3	11.6	6.1			8.4	8.3
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	18.4		7.4	14.8		14.9	34.5	17.0			34.8	34.8
Incremental Delay (d_2), s/veh	0.1		2.4	1.2		1.4	2.8	0.0			1.0	1.0
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	18.5		9.8	16.0		16.3	37.3	17.0			35.8	35.9
Level of Service (LOS)	B		A	B		B	D	B			D	D
Approach Delay, s/veh / LOS	9.9		A	16.1		B	25.0		C	35.8		D
Intersection Delay, s/veh / LOS	20.9						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.26	B	2.09	B	1.68	B	2.13	B
Bicycle LOS Score / LOS		F	1.01	A	1.19	A	0.87	A

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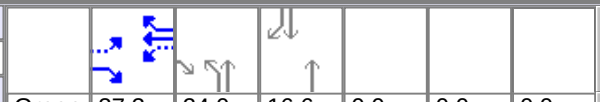
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing with Project - PM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - PM.xus		
Project Description	Rancho Los Amigos South Campus				

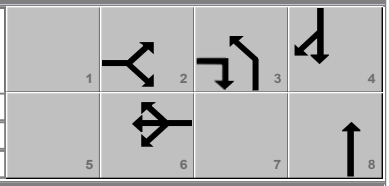


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	17		522	63	397	53	440	680			474	9

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	37.3	24.0	16.6	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		41.3		41.3	28.0	48.7		20.6
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					23.2	12.5		14.3
Green Extension Time (g_e), s		0.0		0.0	0.9	2.6		2.3
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.03

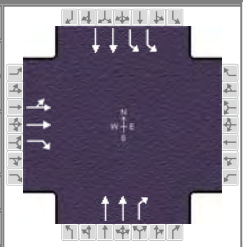
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	17		522	268		245	440	680			242	241
Adjusted Saturation Flow Rate (*s*), veh/h/ln	955		1610	1790		1664	1810	1809			1900	1887
Queue Service Time (g_s), s	1.1		13.7	2.4		9.1	21.2	10.5			12.3	10.7
Cycle Queue Clearance Time (g_c), s	10.2		13.7	8.9		9.1	21.2	10.5			12.3	10.7
Green Ratio (*g/C*)	0.41		0.68	0.41		0.41	0.27	0.50			0.18	0.18
Capacity (*c*), veh/h	380		1098	792		690	484	1796			351	349
Volume-to-Capacity Ratio (*X*)	0.045		0.475	0.339		0.354	0.910	0.379			0.690	0.691
Back of Queue (*Q*), ft/ln (95 th percentile)	12		188.1	173.5		160.9	355.3	179.5			212.5	211.9
Back of Queue (*Q*), veh/ln (95 th percentile)	0.5		7.5	6.9		6.4	14.2	7.2			8.5	8.5
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	21.6		6.7	18.0		18.1	31.9	14.1			34.3	34.3
Incremental Delay (d_2), s/veh	0.2		1.5	1.2		1.4	2.8	0.0			0.9	0.9
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	21.8		8.2	19.1		19.5	34.8	14.1			35.2	35.2
Level of Service (LOS)	C		A	B		B	C	B			D	D
Approach Delay, s/veh / LOS	8.6		A	19.3		B	22.2		C	35.2		D
Intersection Delay, s/veh / LOS	21.3						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.27	B	2.10	B	1.67	B	2.12	B
Bicycle LOS Score / LOS		F	0.91	A	1.41	A	0.89	A

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HCS7 Signalized Intersection Results Summary

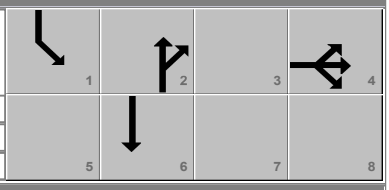
General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Existing with Project - AM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	475	699	567					891	322	175	998	

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	35.7	6.4	35.8	0.0	0.0	0.0	
Yellow	4.0	4.0	4.0	0.0	0.0	0.0	
Red	0.0	0.0	0.0	0.0	0.0	0.0	



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		39.8				39.7	10.4	50.2
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		31.4					6.4	
Green Extension Time (g_e), s		4.4				0.0	0.2	0.0
Phase Call Probability		1.00					0.99	
Max Out Probability		0.01					1.00	

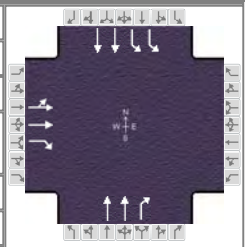
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	610	564	567					891	322	175	998	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1829	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	27.1	22.8	29.4					17.7	13.6	4.4	16.7	
Cycle Queue Clearance Time (g_c), s	27.1	22.8	29.4					17.7	13.6	4.4	16.7	
Green Ratio (*g/C*)	0.40	0.40	0.40					0.40	0.40	0.14	0.51	
Capacity (*c*), veh/h	728	756	641					1437	639	251	1856	
Volume-to-Capacity Ratio (*X*)	0.839	0.745	0.885					0.620	0.504	0.696	0.538	
Back of Queue (*Q*), ft/ln (95 th percentile)	415.4	369.6	402.9					298.8	227.3	85.3	268.4	
Back of Queue (*Q*), veh/ln (95 th percentile)	16.6	14.8	16.1					12.0	9.1	3.4	10.7	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	24.5	23.2	25.2					21.7	20.4	40.8	14.7	
Incremental Delay (d_2), s/veh	1.0	0.6	1.7					2.0	2.8	1.3	1.1	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	25.5	23.7	26.8					23.7	23.3	42.1	15.9	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	25.4	C		0.0			23.6	C		19.8	B	
Intersection Delay, s/veh / LOS	23.3						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.92	B			1.49	A	1.46	A

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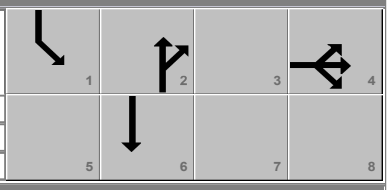
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Existing with Project - PM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	237	777	512					997	467	81	688	

Signal Information												
Cycle, s	90.0	Reference Phase	2									
Offset, s	0	Reference Point	End									
Uncoordinated	No	Simult. Gap E/W	On	Green	40.4	5.2	32.4	0.0	0.0	0.0		
Force Mode	Fixed	Simult. Gap N/S	On	Yellow	4.0	4.0	4.0	0.0	0.0	0.0		
				Red	0.0	0.0	0.0	0.0	0.0	0.0		



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		36.4				44.4	9.2	53.6
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		28.9					4.0	
Green Extension Time (g_e), s		3.6				0.0	1.1	0.0
Phase Call Probability		1.00					0.87	
Max Out Probability		0.01					0.40	

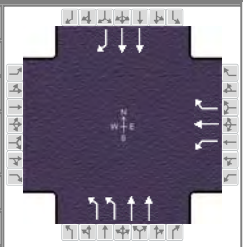
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	527	487	512					997	467	81	688	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1858	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	22.8	19.8	26.9					18.9	20.3	2.0	9.5	
Cycle Queue Clearance Time (g_c), s	22.8	19.8	26.9					18.9	20.3	2.0	9.5	
Green Ratio (*g/C*)	0.36	0.36	0.36					0.45	0.45	0.22	0.55	
Capacity (*c*), veh/h	669	684	580					1623	723	203	1994	
Volume-to-Capacity Ratio (*X*)	0.788	0.712	0.883					0.614	0.646	0.398	0.345	
Back of Queue (*Q*), ft/ln (95 th percentile)	367.7	332.8	378.5					307.8	313.4	38.7	161.1	
Back of Queue (*Q*), veh/ln (95 th percentile)	14.7	13.3	15.1					12.3	12.5	1.5	6.4	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	25.7	24.8	27.0					18.9	19.3	40.9	11.2	
Incremental Delay (d_2), s/veh	0.8	0.5	1.8					1.7	4.4	0.5	0.5	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	26.5	25.3	28.8					20.6	23.7	41.4	11.7	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	26.9	C		0.0			21.6	C		14.8	B	
Intersection Delay, s/veh / LOS	22.4						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.75	B			1.70	B	1.12	A

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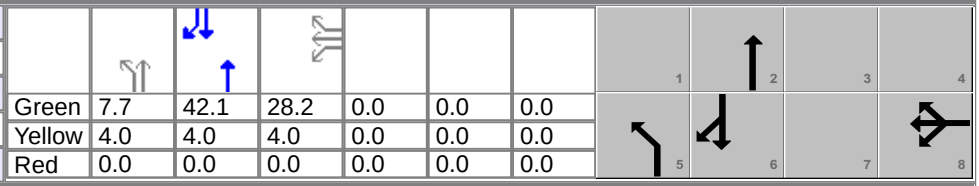
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing with Project - AM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				216	504	445	213	1047			820	526

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	7.7	42.1	28.2	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				32.2	11.7	57.8		46.1
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				25.6	7.3			
Green Extension Time (g_e), s				2.5	0.5	0.0		0.0
Phase Call Probability				1.00	1.00			
Max Out Probability				0.00	0.00			

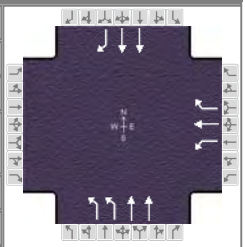
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				216	504	445	213	1047			820	526
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				8.4	22.3	23.6	5.3	14.7			14.0	23.2
Cycle Queue Clearance Time (g_c), s				8.4	22.3	23.6	5.3	14.7			14.0	23.2
Green Ratio (*g/C*)				0.31	0.31	0.31	0.21	0.60			0.47	0.47
Capacity (*c*), veh/h				566	595	504	302	2164			1692	753
Volume-to-Capacity Ratio (*X*)				0.381	0.848	0.883	0.705	0.484			0.485	0.698
Back of Queue (*Q*), ft/ln (95 th percentile)				156.4	375.8	346.2	102.8	228.2			238.1	350.4
Back of Queue (*Q*), veh/ln (95 th percentile)				6.3	15.0	13.8	4.1	9.1			9.5	14.0
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				24.1	28.9	29.4	40.0	10.2			16.5	18.9
Incremental Delay (d_2), s/veh				0.2	1.3	2.1	1.1	0.8			1.0	5.3
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				24.3	30.2	31.4	41.2	11.0			17.5	24.3
Level of Service (LOS)				C	C	C	D	B			B	C
Approach Delay, s/veh / LOS	0.0			29.6		C	16.1		B	20.1		C
Intersection Delay, s/veh / LOS	21.7						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.88	B	1.67	B
Bicycle LOS Score / LOS			2.41	B	1.53	B	1.60	B

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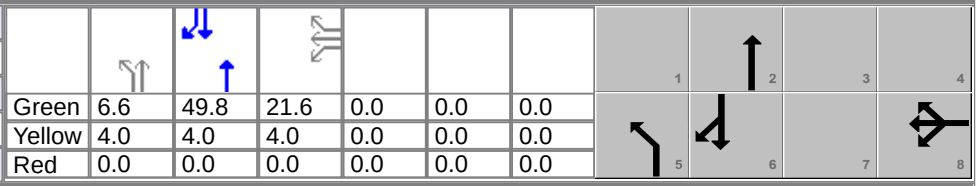
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Existing with Project - PM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2017	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				214	363	332	174	1055			891	367

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	6.6	49.8	21.6	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				25.6	10.6	64.4		53.8
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				19.8	6.3			
Green Extension Time (g_e), s				1.9	0.4	0.0		0.0
Phase Call Probability				1.00	0.99			
Max Out Probability				0.00	0.00			

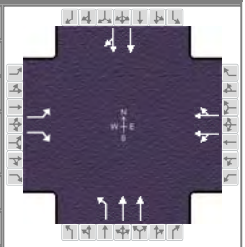
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				214	363	332	174	1055			891	367
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				9.2	16.1	17.8	4.3	12.2			13.2	11.9
Cycle Queue Clearance Time (g_c), s				9.2	16.1	17.8	4.3	12.2			13.2	11.9
Green Ratio (*g/C*)				0.24	0.24	0.24	0.34	0.67			0.55	0.55
Capacity (*c*), veh/h				435	456	387	259	2427			2000	890
Volume-to-Capacity Ratio (*X*)				0.492	0.795	0.858	0.673	0.435			0.446	0.412
Back of Queue (*Q*), ft/ln (95 th percentile)				175.1	292.7	279.4	84.4	180.7			215.9	188.2
Back of Queue (*Q*), veh/ln (95 th percentile)				7.0	11.7	11.2	3.4	7.2			8.6	7.5
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				29.5	32.1	32.7	40.6	6.9			11.9	11.7
Incremental Delay (d_2), s/veh				0.3	1.2	2.2	1.1	0.6			0.7	1.4
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				29.8	33.3	34.9	41.8	7.5			12.7	13.1
Level of Service (LOS)				C	C	C	D	A			B	B
Approach Delay, s/veh / LOS	0.0			33.1		C	12.3		B	12.8		B
Intersection Delay, s/veh / LOS	18.0						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.86	B	1.66	B
Bicycle LOS Score / LOS			1.99	B	1.50	B	1.53	B

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HCS7 Signalized Intersection Results Summary

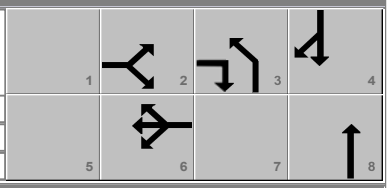
General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future Without Project - AM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	9		698	40	526	36	352	545			472	16

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	41.8	19.7	16.6	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		45.8		45.8	23.7	44.2		20.6
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					19.0	10.8		14.5
Green Extension Time (g_e), s		0.0		0.0	0.7	2.2		2.1
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.00

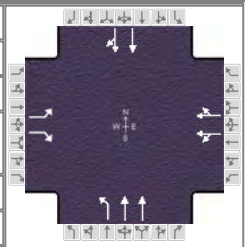
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	9		698	316		286	352	545			245	243
Adjusted Saturation Flow Rate (*s*), veh/h/ln	862		1610	1849		1691	1810	1809			1900	1878
Queue Service Time (g_s), s	0.6		21.9	0.0		9.8	17.0	8.8			12.5	10.9
Cycle Queue Clearance Time (g_c), s	10.4		21.9	9.6		9.8	17.0	8.8			12.5	10.9
Green Ratio (*g/C*)	0.46		0.68	0.46		0.46	0.22	0.45			0.18	0.18
Capacity (*c*), veh/h	386		1099	903		785	395	1617			350	346
Volume-to-Capacity Ratio (*X*)	0.023		0.635	0.349		0.365	0.891	0.337			0.701	0.703
Back of Queue (*Q*), ft/ln (95 th percentile)	5.9		276.4	187.2		172.6	299.3	155.1			215.3	213.9
Back of Queue (*Q*), veh/ln (95 th percentile)	0.2		11.1	7.5		6.9	12.0	6.2			8.6	8.6
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	18.9		8.0	15.5		15.6	34.1	16.2			34.4	34.4
Incremental Delay (d_2), s/veh	0.1		2.8	1.1		1.3	2.8	0.0			1.0	1.0
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	19.0		10.8	16.6		16.9	36.9	16.2			35.3	35.4
Level of Service (LOS)	B		B	B		B	D	B			D	D
Approach Delay, s/veh / LOS	10.9		B	16.7		B	24.4		C	35.4		D
Intersection Delay, s/veh / LOS	21.1						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.26	B	2.09	B	1.68	B	2.12	B
Bicycle LOS Score / LOS		F	0.98	A	1.23	A	0.89	A

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HCS7 Signalized Intersection Results Summary

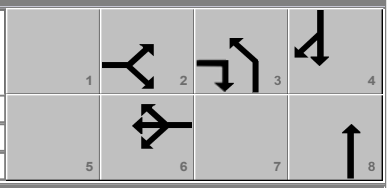
General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future Without Project - PM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	18		543	53	413	55	458	710			498	9

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	35.7	24.9	17.4	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		39.7		39.7	28.9	50.3		21.4
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					24.0	12.7		15.0
Green Extension Time (g_e), s		0.0		0.0	0.9	2.7		2.4
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.06

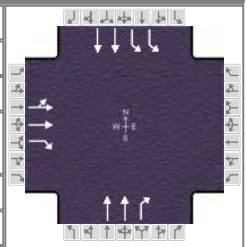
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	18		543	274		247	458	710			254	253
Adjusted Saturation Flow Rate (*s*), veh/h/ln	940		1610	1815		1662	1810	1809			1900	1888
Queue Service Time (g_s), s	1.2		14.9	1.1		9.5	22.0	10.7			13.0	11.2
Cycle Queue Clearance Time (g_c), s	10.7		14.9	9.2		9.5	22.0	10.7			13.0	11.2
Green Ratio (*g/C*)	0.40		0.67	0.40		0.40	0.28	0.51			0.19	0.19
Capacity (*c*), veh/h	354		1085	767		659	502	1862			367	364
Volume-to-Capacity Ratio (*X*)	0.051		0.501	0.357		0.375	0.913	0.381			0.693	0.694
Back of Queue (*Q*), ft/ln (95 th percentile)	13.3		203.8	184.9		170.1	366	179.8			219.9	219.3
Back of Queue (*Q*), veh/ln (95 th percentile)	0.5		8.2	7.4		6.8	14.6	7.2			8.8	8.8
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	23.0		7.2	19.1		19.3	31.5	13.2			33.8	33.8
Incremental Delay (d_2), s/veh	0.3		1.7	1.3		1.6	2.8	0.0			0.9	0.9
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	23.3		8.9	20.4		20.9	34.3	13.2			34.7	34.7
Level of Service (LOS)	C		A	C		C	C	B			C	C
Approach Delay, s/veh / LOS	9.3		A	20.7		C	21.5		C	34.7		C
Intersection Delay, s/veh / LOS	21.3						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.27	B	2.10	B	1.67	B	2.12	B
Bicycle LOS Score / LOS		F	0.92	A	1.45	A	0.91	A

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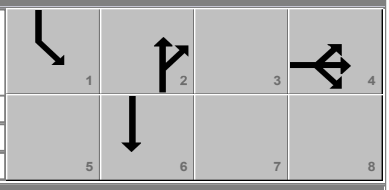
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Future Without Project - AM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	333	727	590					869	335	182	1038	

Signal Information					EB			WB			NB			SB		
Cycle, s	90.0	Reference Phase	2													
Offset, s	0	Reference Point	End	Green	34.5	6.7		36.8	0.0	0.0	0.0					
Uncoordinated	No	Simult. Gap E/W	On	Yellow	4.0	4.0		4.0	0.0	0.0	0.0					
Force Mode	Fixed	Simult. Gap N/S	On	Red	0.0	0.0		0.0	0.0	0.0	0.0					



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		40.8				38.5	10.7	49.2
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		32.8					6.6	
Green Extension Time (g_e), s		4.0				0.0	0.2	0.0
Phase Call Probability		1.00					0.99	
Max Out Probability		0.01					0.91	

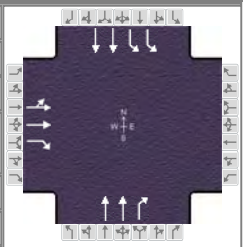
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	551	509	590					869	335	182	1038	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1844	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	22.7	19.5	30.8					17.5	14.6	4.6	18.0	
Cycle Queue Clearance Time (g_c), s	22.7	19.5	30.8					17.5	14.6	4.6	18.0	
Green Ratio (*g/C*)	0.41	0.41	0.41					0.38	0.38	0.14	0.50	
Capacity (*c*), veh/h	754	777	659					1388	618	260	1816	
Volume-to-Capacity Ratio (*X*)	0.730	0.655	0.896					0.626	0.542	0.699	0.571	
Back of Queue (*Q*), ft/ln (95 th percentile)	356.2	321.7	417.7					298.2	243.2	88.6	287.9	
Back of Queue (*Q*), veh/ln (95 th percentile)	14.2	12.9	16.7					11.9	9.7	3.5	11.5	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	22.4	21.5	24.8					22.5	21.6	40.7	15.6	
Incremental Delay (d_2), s/veh	0.5	0.4	2.0					2.1	3.4	1.3	1.3	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	22.9	21.8	26.8					24.6	25.0	42.0	17.0	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	24.0	C		0.0			24.7	C		20.7	C	
Intersection Delay, s/veh / LOS	23.2						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.85	B			1.48	A	1.49	A

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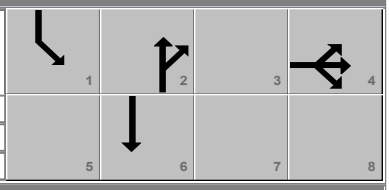
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Future Without Project - PM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	216	808	532					1037	486	84	670	

Signal Information					EB			WB			NB			SB		
Cycle, s	90.0	Reference Phase	2													
Offset, s	0	Reference Point	End	Green	39.2	5.3		33.5	0.0	0.0	0.0					
Uncoordinated	No	Simult. Gap E/W	On	Yellow	4.0	4.0		4.0	0.0	0.0	0.0					
Force Mode	Fixed	Simult. Gap N/S	On	Red	0.0	0.0		0.0	0.0	0.0	0.0					



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		37.5				43.2	9.3	52.5
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		29.9					4.1	
Green Extension Time (g_e), s		3.7				0.0	1.9	0.0
Phase Call Probability		1.00					0.88	
Max Out Probability		0.01					0.00	

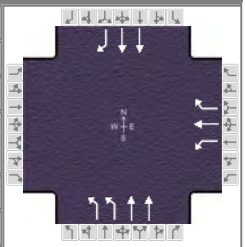
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	533	491	532					1037	486	84	670	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1862	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	22.6	19.7	27.9					20.4	22.0	2.1	9.4	
Cycle Queue Clearance Time (g_c), s	22.6	19.7	27.9					20.4	22.0	2.1	9.4	
Green Ratio (*g/C*)	0.37	0.37	0.37					0.44	0.44	0.19	0.54	
Capacity (*c*), veh/h	694	708	600					1576	701	206	1948	
Volume-to-Capacity Ratio (*X*)	0.768	0.694	0.887					0.658	0.693	0.408	0.344	
Back of Queue (*Q*), ft/ln (95 th percentile)	364.4	329.3	388.9					331	339.7	40.2	162.1	
Back of Queue (*Q*), veh/ln (95 th percentile)	14.6	13.2	15.6					13.2	13.6	1.6	6.5	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	24.8	23.9	26.5					20.1	20.5	40.9	11.8	
Incremental Delay (d_2), s/veh	0.7	0.5	1.8					2.2	5.6	0.5	0.5	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	25.5	24.4	28.3					22.3	26.1	41.3	12.2	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	26.1	C		0.0			23.5	C		15.5	B	
Intersection Delay, s/veh / LOS	23.0						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.77	B			1.74	B	1.11	A

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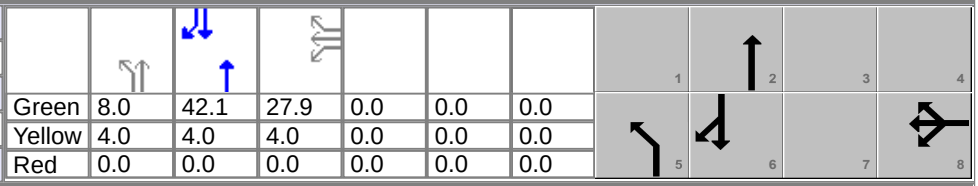
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future Without Project - AM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				225	524	339	222	1035			824	547

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	8.0	42.1	27.9	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				31.9	12.0	58.1		46.1
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				25.6	7.5			
Green Extension Time (g_e), s				2.3	0.5	0.0		0.0
Phase Call Probability				1.00	1.00			
Max Out Probability				0.00	0.00			

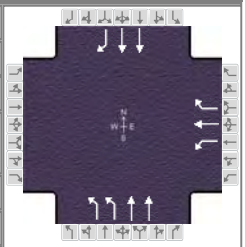
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				225	524	339	222	1035			824	547
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				8.8	23.6	16.6	5.5	14.4			14.1	24.7
Cycle Queue Clearance Time (g_c), s				8.8	23.6	16.6	5.5	14.4			14.1	24.7
Green Ratio (*g/C*)				0.31	0.31	0.31	0.30	0.60			0.47	0.47
Capacity (*c*), veh/h				562	590	500	312	2173			1692	753
Volume-to-Capacity Ratio (*X*)				0.401	0.889	0.678	0.712	0.476			0.487	0.727
Back of Queue (*Q*), ft/ln (95 th percentile)				164.6	396.2	255.4	107.1	224			239.8	371.1
Back of Queue (*Q*), veh/ln (95 th percentile)				6.6	15.8	10.2	4.3	9.0			9.6	14.8
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				24.4	29.6	27.1	39.9	10.0			16.5	19.3
Incremental Delay (d_2), s/veh				0.2	1.9	0.6	1.1	0.8			1.0	6.1
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				24.6	31.4	27.7	41.0	10.8			17.5	25.4
Level of Service (LOS)				C	C	C	D	B			B	C
Approach Delay, s/veh / LOS	0.0			28.9		C	16.1		B	20.7		C
Intersection Delay, s/veh / LOS	21.5						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.88	B	1.67	B
Bicycle LOS Score / LOS			2.28	B	1.52	B	1.62	B

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HCS7 Signalized Intersection Results Summary

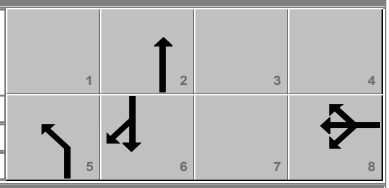
General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future Without Project - PM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				223	378	322	182	1095			780	382

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	6.8	50.1	21.1	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				25.1	10.8	64.9		54.1
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				19.2	6.5			
Green Extension Time (g_e), s				1.8	0.4	0.0		0.0
Phase Call Probability				1.00	0.99			
Max Out Probability				0.01	0.00			

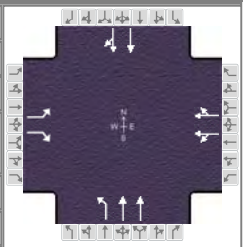
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				223	378	322	182	1095			780	382
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				9.7	17.1	17.2	4.5	12.6			11.0	12.4
Cycle Queue Clearance Time (g_c), s				9.7	17.1	17.2	4.5	12.6			11.0	12.4
Green Ratio (*g/C*)				0.23	0.23	0.23	0.31	0.68			0.56	0.56
Capacity (*c*), veh/h				423	444	377	266	2450			2015	897
Volume-to-Capacity Ratio (*X*)				0.527	0.851	0.855	0.683	0.447			0.387	0.426
Back of Queue (*Q*), ft/ln (95 th percentile)				185.7	309.3	273.2	88.3	184.3			185	194.6
Back of Queue (*Q*), veh/ln (95 th percentile)				7.4	12.4	10.9	3.5	7.4			7.4	7.8
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				30.1	33.0	33.0	40.5	6.7			11.3	11.6
Incremental Delay (d_2), s/veh				0.4	1.8	2.2	1.2	0.6			0.6	1.5
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				30.5	34.8	35.2	41.7	7.3			11.8	13.1
Level of Service (LOS)				C	C	D	D	A			B	B
Approach Delay, s/veh / LOS	0.0			33.9	C		12.2	B		12.2	B	
Intersection Delay, s/veh / LOS	18.2						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.86	B	1.66	B
Bicycle LOS Score / LOS			2.01	B	1.54	B	1.45	A

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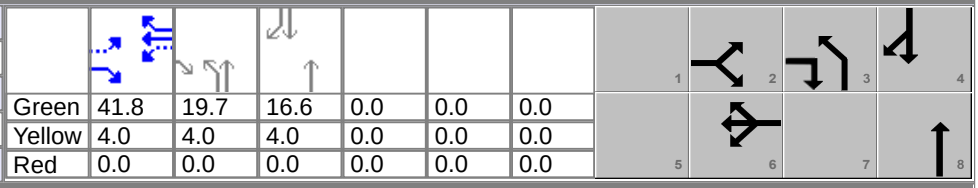
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future With Project - AM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	9		698	86	526	36	352	545			472	16

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	41.8	19.7	16.6	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		45.8		45.8	23.7	44.2		20.6
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					19.0	10.8		14.5
Green Extension Time (g_e), s		0.0		0.0	0.7	2.2		2.1
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.00

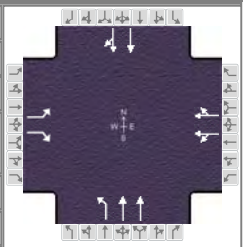
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	9		698	335		313	352	545			245	243
Adjusted Saturation Flow Rate (*s*), veh/h/ln	862		1610	1776		1694	1810	1809			1900	1878
Queue Service Time (g_s), s	0.6		21.9	5.0		10.9	17.0	8.8			12.5	10.9
Cycle Queue Clearance Time (g_c), s	11.6		21.9	10.8		10.9	17.0	8.8			12.5	10.9
Green Ratio (*g/C*)	0.46		0.68	0.46		0.46	0.22	0.45			0.18	0.18
Capacity (*c*), veh/h	375		1099	874		786	395	1617			350	346
Volume-to-Capacity Ratio (*X*)	0.024		0.635	0.383		0.398	0.891	0.337			0.701	0.703
Back of Queue (*Q*), ft/ln (95 th percentile)	6		276.4	200		192	299.3	155.1			215.3	213.9
Back of Queue (*Q*), veh/ln (95 th percentile)	0.2		11.1	8.0		7.7	12.0	6.2			8.6	8.6
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	19.6		8.0	15.7		15.9	34.1	16.2			34.4	34.4
Incremental Delay (d_2), s/veh	0.1		2.8	1.3		1.5	2.8	0.0			1.0	1.0
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	19.8		10.8	17.0		17.4	36.9	16.2			35.3	35.4
Level of Service (LOS)	B		B	B		B	D	B			D	D
Approach Delay, s/veh / LOS	10.9		B	17.2		B	24.4		C	35.4		D
Intersection Delay, s/veh / LOS	21.2						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.26	B	2.09	B	1.68	B	2.12	B
Bicycle LOS Score / LOS		F	1.02	A	1.23	A	0.89	A

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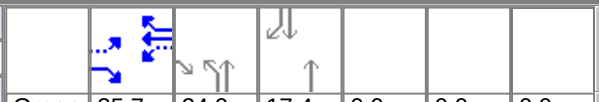
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future With Project - PM	PHF	1.00
Urban Street	Wright/710 SB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #2	File Name	2 - PM.xus		
Project Description	Rancho Los Amigos South Campus				

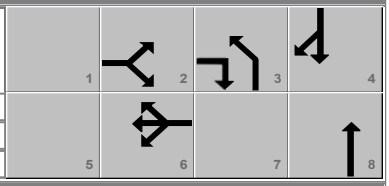


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	18		543	61	413	55	458	710			498	9

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	35.7	24.9	17.4	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		2		6	3	8		4
Case Number		5.0		8.0	2.0	4.0		8.3
Phase Duration, s		39.7		39.7	28.9	50.3		21.4
Change Period, ($Y+R_c$), s		4.0		4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s		0.0		0.0	3.1	3.0		3.0
Queue Clearance Time (g_s), s					24.0	12.7		15.0
Green Extension Time (g_e), s		0.0		0.0	0.9	2.7		2.4
Phase Call Probability					1.00	1.00		1.00
Max Out Probability					0.00	0.00		0.06

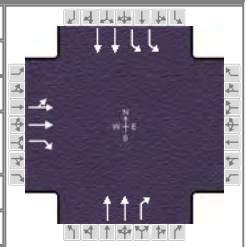
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5		12	1	6	16	3	8			4	14
Adjusted Flow Rate (*v*), veh/h	18		543	277		252	458	710			254	253
Adjusted Saturation Flow Rate (*s*), veh/h/ln	940		1610	1800		1664	1810	1809			1900	1888
Queue Service Time (g_s), s	1.2		14.9	2.5		9.7	22.0	10.7			13.0	11.2
Cycle Queue Clearance Time (g_c), s	10.9		14.9	9.5		9.7	22.0	10.7			13.0	11.2
Green Ratio (*g/C*)	0.40		0.67	0.40		0.40	0.28	0.51			0.19	0.19
Capacity (*c*), veh/h	352		1085	762		660	502	1862			367	364
Volume-to-Capacity Ratio (*X*)	0.051		0.501	0.364		0.382	0.913	0.381			0.693	0.694
Back of Queue (*Q*), ft/ln (95 th percentile)	13.3		203.8	188.2		174	366	179.8			219.9	219.3
Back of Queue (*Q*), veh/ln (95 th percentile)	0.5		8.2	7.5		7.0	14.6	7.2			8.8	8.8
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh	23.2		7.2	19.2		19.3	31.5	13.2			33.8	33.8
Incremental Delay (d_2), s/veh	0.3		1.7	1.3		1.7	2.8	0.0			0.9	0.9
Initial Queue Delay (d_3), s/veh	0.0		0.0	0.0		0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh	23.5		8.9	20.5		21.0	34.3	13.2			34.7	34.7
Level of Service (LOS)	C		A	C		C	C	B			C	C
Approach Delay, s/veh / LOS	9.3	A		20.8	C		21.5	C		34.7	C	
Intersection Delay, s/veh / LOS	21.3						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.27	B	2.10	B	1.67	B	2.12	B
Bicycle LOS Score / LOS		F	0.92	A	1.45	A	0.91	A

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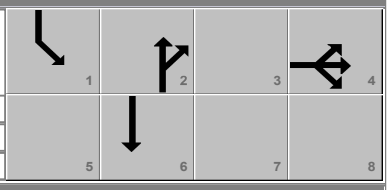
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Future With Project - AM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	452	727	590					915	335	182	1044	

Signal Information					EB			WB			NB			SB		
Cycle, s	90.0	Reference Phase	2													
Offset, s	0	Reference Point	End	Green	34.3	6.7		37.1	0.0	0.0	0.0					
Uncoordinated	No	Simult. Gap E/W	On	Yellow	4.0	4.0		4.0	0.0	0.0	0.0					
Force Mode	Fixed	Simult. Gap N/S	On	Red	0.0	0.0		0.0	0.0	0.0	0.0					



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		41.1				38.3	10.7	48.9
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		32.6					6.6	
Green Extension Time (g_e), s		4.5				0.0	0.2	0.0
Phase Call Probability		1.00					0.99	
Max Out Probability		0.01					0.91	

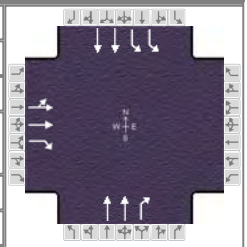
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	614	565	590					915	335	182	1044	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1833	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	26.6	22.4	30.6					18.9	14.6	4.6	18.3	
Cycle Queue Clearance Time (g_c), s	26.6	22.4	30.6					18.9	14.6	4.6	18.3	
Green Ratio (*g/C*)	0.41	0.41	0.41					0.38	0.38	0.14	0.50	
Capacity (*c*), veh/h	755	783	663					1377	613	260	1806	
Volume-to-Capacity Ratio (*X*)	0.813	0.722	0.889					0.665	0.547	0.699	0.578	
Back of Queue (*Q*), ft/ln (95 th percentile)	407.2	362.2	415.5					318.3	244.8	88.6	291.4	
Back of Queue (*Q*), veh/ln (95 th percentile)	16.3	14.5	16.6					12.7	9.8	3.5	11.7	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	23.4	22.1	24.6					23.1	21.8	40.7	15.9	
Incremental Delay (d_2), s/veh	0.8	0.5	1.9					2.5	3.5	1.3	1.4	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	24.2	22.6	26.4					25.7	25.3	42.0	17.2	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	24.4	C		0.0			25.6	C		20.9	C	
Intersection Delay, s/veh / LOS	23.7						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.95	B			1.52	B	1.50	A

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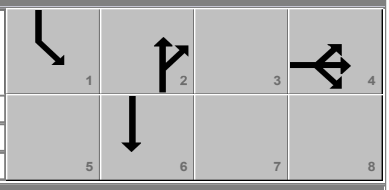
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 10, 2018	Area Type	Other
Jurisdiction	City of Paramount	Time Period	Future With Project - PM	PHF	1.00
Urban Street	Garfield/105 EB Off-Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #11	File Name	11 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	236	808	532					1045	486	84	707	

Signal Information					EB			WB			NB			SB		
Cycle, s	90.0	Reference Phase	2													
Offset, s	0	Reference Point	End	Green	39.1	5.3		33.6	0.0	0.0	0.0					
Uncoordinated	No	Simult. Gap E/W	On	Yellow	4.0	4.0		4.0	0.0	0.0	0.0					
Force Mode	Fixed	Simult. Gap N/S	On	Red	0.0	0.0		0.0	0.0	0.0	0.0					



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		11.0				7.3	2.0	4.0
Phase Duration, s		37.6				43.1	9.3	52.4
Change Period, ($Y+R_c$), s		4.0				4.0	4.0	4.0
Max Allow Headway (*MAH*), s		3.2				0.0	3.1	0.0
Queue Clearance Time (g_s), s		29.8					4.1	
Green Extension Time (g_e), s		3.7				0.0	2.0	0.0
Phase Call Probability		1.00					0.88	
Max Out Probability		0.01					0.00	

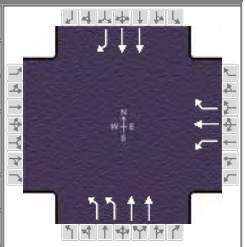
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7	4	14					2	12	1	6	
Adjusted Flow Rate (*v*), veh/h	543	501	532					1045	486	84	707	
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1860	1900	1610					1809	1610	1757	1809	
Queue Service Time (g_s), s	23.3	20.2	27.8					20.7	22.0	2.1	10.1	
Cycle Queue Clearance Time (g_c), s	23.3	20.2	27.8					20.7	22.0	2.1	10.1	
Green Ratio (*g/C*)	0.37	0.37	0.37					0.43	0.43	0.06	0.54	
Capacity (*c*), veh/h	694	709	601					1572	700	208	1947	
Volume-to-Capacity Ratio (*X*)	0.783	0.707	0.886					0.665	0.694	0.405	0.363	
Back of Queue (*Q*), ft/ln (95 th percentile)	372.9	336.9	388.8					334.8	340.3	40.1	173	
Back of Queue (*Q*), veh/ln (95 th percentile)	14.9	13.5	15.6					13.4	13.6	1.6	6.9	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00					0.00	0.00	0.00	0.00	
Uniform Delay (d_1), s/veh	25.0	24.0	26.4					20.2	20.6	40.8	11.9	
Incremental Delay (d_2), s/veh	0.7	0.5	1.8					2.2	5.6	0.5	0.5	
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Control Delay (*d*), s/veh	25.7	24.5	28.2					22.5	26.2	41.3	12.5	
Level of Service (LOS)	C	C	C					C	C	D	B	
Approach Delay, s/veh / LOS	26.2	C		0.0			23.7	C		15.5	B	
Intersection Delay, s/veh / LOS	23.0						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.31	B	2.47	B	1.72	B	1.89	B
Bicycle LOS Score / LOS	1.79	B			1.75	B	1.14	A

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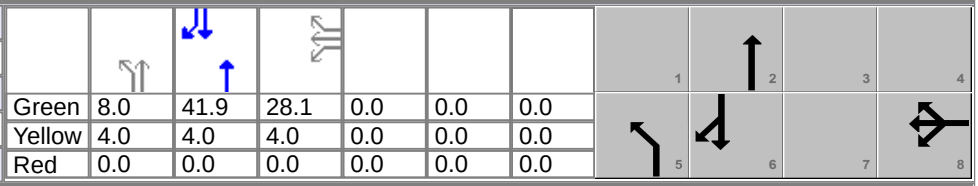
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future With Project - AM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - AM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				225	524	430	222	1081			843	547

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	8.0	41.9	28.1	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				32.1	12.0	57.9		45.9
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				25.6	7.5			
Green Extension Time (g_e), s				2.6	0.5	0.0		0.0
Phase Call Probability				1.00	1.00			
Max Out Probability				0.00	0.00			

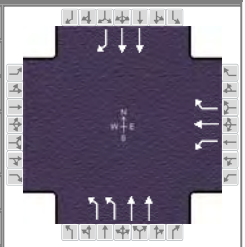
Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				225	524	430	222	1081			843	547
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				8.8	23.6	22.5	5.5	15.4			14.6	24.8
Cycle Queue Clearance Time (g_c), s				8.8	23.6	22.5	5.5	15.4			14.6	24.8
Green Ratio (*g/C*)				0.31	0.31	0.31	0.31	0.60			0.47	0.47
Capacity (*c*), veh/h				566	594	503	312	2165			1684	749
Volume-to-Capacity Ratio (*X*)				0.398	0.882	0.854	0.712	0.499			0.501	0.730
Back of Queue (*Q*), ft/ln (95 th percentile)				163.8	394.7	331.5	107.1	236.8			246.9	373.2
Back of Queue (*Q*), veh/ln (95 th percentile)				6.6	15.8	13.3	4.3	9.5			9.9	14.9
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				24.3	29.4	29.0	39.9	10.3			16.8	19.5
Incremental Delay (d_2), s/veh				0.2	1.8	1.6	1.1	0.8			1.1	6.2
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				24.5	31.1	30.7	41.0	11.2			17.8	25.7
Level of Service (LOS)				C	C	C	D	B			B	C
Approach Delay, s/veh / LOS	0.0			29.7	C		16.3	B		20.9	C	
Intersection Delay, s/veh / LOS	22.0						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.88	B	1.67	B
Bicycle LOS Score / LOS			2.43	B	1.56	B	1.63	B

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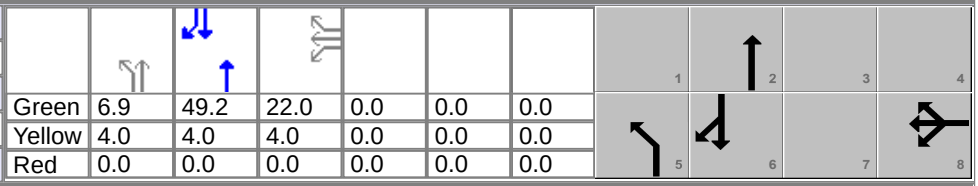
HCS7 Signalized Intersection Results Summary

General Information				Intersection Information	
Agency	LLG Engineers			Duration, h	0.25
Analyst	JAS	Analysis Date	Oct 15, 2018	Area Type	Other
Jurisdiction	City of South Gate	Time Period	Future With Project - PM	PHF	1.00
Urban Street	Paramount/105 WB Ramp	Analysis Year	2021	Analysis Period	1> 7:00
Intersection	Intersection #21	File Name	21 - PM.xus		
Project Description	Rancho Los Amigos South Campus				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				223	378	337	182	1103			890	382

Signal Information			
Cycle, s	90.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	6.9	49.2	22.0	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8	5	2		6
Case Number				9.0	2.0	4.0		7.3
Phase Duration, s				26.0	10.9	64.0		53.2
Change Period, ($Y+R_c$), s				4.0	4.0	4.0		4.0
Max Allow Headway (*MAH*), s				3.2	3.1	0.0		0.0
Queue Clearance Time (g_s), s				20.0	6.5			
Green Extension Time (g_e), s				1.9	0.4	0.0		0.0
Phase Call Probability				1.00	0.99			
Max Out Probability				0.00	0.00			

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3	8	18	5	2			6	16
Adjusted Flow Rate (*v*), veh/h				223	378	337	182	1103			890	382
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1810	1900	1610	1757	1809			1809	1610
Queue Service Time (g_s), s				9.6	16.9	18.0	4.5	13.1			13.3	12.7
Cycle Queue Clearance Time (g_c), s				9.6	16.9	18.0	4.5	13.1			13.3	12.7
Green Ratio (*g/C*)				0.24	0.24	0.24	0.44	0.67			0.55	0.55
Capacity (*c*), veh/h				441	464	393	268	2413			1976	880
Volume-to-Capacity Ratio (*X*)				0.505	0.815	0.858	0.678	0.457			0.450	0.434
Back of Queue (*Q*), ft/ln (95 th percentile)				182.5	304	282.3	88.2	194.1			218.8	199.8
Back of Queue (*Q*), veh/ln (95 th percentile)				7.3	12.2	11.3	3.5	7.8			8.8	8.0
Queue Storage Ratio (*RQ*) (95 th percentile)				0.00	0.00	0.00	0.00	0.00			0.00	0.00
Uniform Delay (d_1), s/veh				29.3	32.1	32.5	40.5	7.2			12.3	12.1
Incremental Delay (d_2), s/veh				0.3	1.4	2.1	1.1	0.6			0.7	1.6
Initial Queue Delay (d_3), s/veh				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Control Delay (*d*), s/veh				29.7	33.5	34.7	41.6	7.8			13.0	13.7
Level of Service (LOS)				C	C	C	D	A			B	B
Approach Delay, s/veh / LOS	0.0			33.0	C		12.6	B		13.2	B	
Intersection Delay, s/veh / LOS	18.3						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.47	B	2.31	B	1.86	B	1.66	B
Bicycle LOS Score / LOS			2.04	B	1.55	B	1.54	B

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APPENDIX G

CMA AND LEVELS OF SERVICE EXPLANATION
CMA DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS
CITY OF LYNWOOD

CRITICAL MOVEMENT ANALYSIS (CMA) DESCRIPTION

Level of Service is a term used to describe prevailing conditions and their effect on traffic. Broadly interpreted, the Level of Service concept denotes any one of a number of differing combinations of operating conditions which may take place as a roadway is accommodating various traffic volumes. Level of Service is a qualitative measure of the effect of such factors as travel speed, travel time, interruptions, freedom to maneuver, safety, driving comfort and convenience.

Six Levels of Service, A through F, have been defined in the 1965 *Highway Capacity Manual*. Level of Service A describes a condition of free flow, with low traffic volumes and relatively high speeds, while Level of Service F describes forced traffic flow at low speeds with jammed conditions and queues which cannot clear during the green phases.

Critical Movement Analysis (CMA) is a procedure which provides a capacity and level of service geometry and traffic signal operation and results in a level of service determination for the intersection as a whole operating unit.

The per lane volume for each movement in the intersection is determined and the per lane intersection capacity based on the Transportation Research Board (TRB) Report 212 (*Interim Materials on Highway Capacity*). The resulting CMA represents the ratio of the intersection's cumulative volume over its respective capacity (V/C ratio). Critical Movement Analysis takes into account lane widths, bus and truck operations, pedestrian activity and parking activity, as well as number of lanes and geometrics.

The Level of Service (abbreviated from the *Highway Capacity Manual*) are listed here with their corresponding CMA and Load Factor equivalents. Load Factor is that proportion of the signal cycles during the peak hour which are fully loaded; i.e. when all of the vehicles waiting at the beginning of green are not able to clear on that green phase.

Critical Movement Analysis Characteristics

Level of Service	Load Factor	Equivalent CMA
A (free flow)	0.0	0.00 - 0.60
B (rural design)	0.0 - 0.1	0.61 - 0.70
C (urban design)	0.1 - 0.3	0.71 - 0.80
D (maximum urban design)	0.3 - 0.7	0.81 - 0.90
E (capacity)	0.7 - 1.0	0.91 - 1.00
F (force flow)	Not Applicable	Not Applicable

SERVICE LEVEL A
There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B
This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

SERVICE LEVEL C
At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

SERVICE LEVEL D
This level encompasses a zone of increasing restriction approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak hour, but enough cycles with lower demand occur to permit periodic clearance of queues, thus preventing excessive backups. Drivers frequently have to wait through more than one red signal. This level is the lower limit of acceptable operation to most drivers.

SERVICE LEVEL E
This represents near capacity and capacity operation. At capacity (CMA = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F
Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Atlantic Avenue	Year of Count:	2017	Ambient Growth: (%):	1.0	Conducted by:	NDS	Date:	10/3/2018
CMA01	East-West Street:	Imperial Highway	Projection Year:	2021	Peak Hour:	AM	Reviewed by:	JAS	Project:	5-17-0354-1 - RLASC

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	183	1	183	0	183	183	0	190	1	190	0	190	1	190	0	190	1	190
Left-Through		0							0				0				0	
Through	594	2	**297**	0	594	**297**	0	618	2	**309**	0	618	2	**309**	0	618	2	**309**
Through-Right		0							0				0				0	
Right	342	1	284	0	342	284	0	356	1	296	0	356	1	296	0	356	1	296
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	310	1	**310**	46	356	**356**	-14	309	1	**309**	46	355	1	**355**	0	355	1	**355**
Left-Through		0							0				0				0	
Through	555	2	278	0	555	278	0	578	2	289	0	578	2	289	0	578	2	289
Through-Right		0							0				0				0	
Right	171	1	130	0	171	130	0	178	1	135	0	178	1	135	0	178	1	135
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	83	1	**83**	0	83	**83**	0	86	1	**86**	0	86	1	**86**	0	86	1	**86**
Left-Through		0							0				0				0	
Through	633	1	355	46	679	378	-11	648	1	364	46	694	1	387	0	694	1	387
Through-Right		1							1				1				1	
Right	76	0	76	0	76	76	0	79	0	79	0	79	0	79	0	79	0	79
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	116	1	116	0	116	116	0	121	1	121	0	121	1	121	0	121	1	121
Left-Through		0							0				0				0	
Through	866	1	**465**	6	872	**471**	-1	900	1	**480**	6	906	1	**486**	0	906	1	**486**
Through-Right		1							1				1				1	
Right	63	0	63	6	69	69	-6	60	0	60	6	66	0	66	0	66	0	66
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		607	*North-South:*		653	*North-South:*			618	*North-South:*			664	*North-South:*			664
	East-West:		548	*East-West:*		554	*East-West:*			566	*East-West:*			572	*East-West:*			572
	SUM:		1155	*SUM:*		1207	*SUM:*			1184	*SUM:*			1236	*SUM:*			1236
VOLUME/CAPACITY *(V/C)* RATIO:			0.840			0.878				0.861				0.899				0.899
V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.740**			**0.778**				**0.761**				**0.799**				**0.799**
LEVEL OF SERVICE (LOS):			**C**			**C**				**C**				**C**				**C**

	NB--	SB--	EB--	WB--
No. of Phases		4		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?		2		
Override Capacity		0		

	NB--	SB--	EB--	WB--
No. of Phases		4		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?		2		
Override Capacity		0		

	NB--	SB--	EB--	WB--
No. of Phases		4		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?		2		
Override Capacity		0		

	NB--	SB--	EB--	WB--
No. of Phases		4		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?		2		
Override Capacity		0		

	NB--	SB--	EB--	WB--
No. of Phases		4		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?		2		
Override Capacity		0		

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.038	*Δv/c* after mitigation:	0.038
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Atlantic Avenue	Year of Count:	2017	Ambient Growth: (%):	1.0	Conducted by:	NDS	Date:	10/3/2018
CMA01	East-West Street:	Imperial Highway	Projection Year:	2021	Peak Hour:	PM	Reviewed by:	JAS	Project:	5-17-0354-1 - RLASC

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			4			4			4				4				4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0		NB-- 0	SB--	0		NB-- 0	SB--	0	
	EB-- 0	WB--	0	EB-- 0	WB--	0	EB-- 0	WB--	0		EB-- 0	WB--	0		EB-- 0	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	173	1	173	0	173	173	0	180	1	180	0	180	1	180	0	180	1	180
	Left-Through		0							0				0				0	
	Through	559	2	**280**	0	559	**280**	0	582	2	**291**	0	582	2	**291**	0	582	2	**291**
	Through-Right		0							0				0				0	
	Right	271	1	205	0	271	205	0	282	1	213	0	282	1	213	0	282	1	213
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	230	1	**230**	8	238	**238**	-4	235	1	**235**	8	243	1	**243**	0	243	1	**243**
	Left-Through		0							0				0				0	
	Through	589	2	295	0	589	295	0	613	2	307	0	613	2	307	0	613	2	307
	Through-Right		0							0				0				0	
	Right	156	1	111	0	156	111	0	162	1	115	0	162	1	115	0	162	1	115
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	90	1	90	0	90	**90**	0	94	1	94	0	94	1	94	0	94	1	94
	Left-Through		0							0				0				0	
	Through	780	1	**421**	8	788	425	0	812	1	**439**	8	820	1	**443**	0	820	1	**443**
	Through-Right		1							1				1				1	
	Right	62	0	62	0	62	62	0	65	0	65	0	65	0	65	0	65	0	65
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	133	1	**133**	0	133	133	0	138	1	**138**	0	138	1	**138**	0	138	1	**138**
	Left-Through		0							0				0				0	
	Through	793	1	445	37	830	**482**	-11	814	1	450	37	851	1	487	0	851	1	487
	Through-Right		1							1				1				1	
	Right	96	0	96	37	133	133	-14	86	0	86	37	123	0	123	0	123	0	123
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		510	*North-South:*		518	*North-South:*			526	*North-South:*			534	*North-South:*			534
		East-West:		554	*East-West:*		572	*East-West:*			577	*East-West:*			581	*East-West:*			581
		SUM:		1064	*SUM:*		1090	*SUM:*			1103	*SUM:*			1115	*SUM:*			1115
VOLUME/CAPACITY *(V/C)* RATIO:				0.774			0.793				0.802				0.811				0.811
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.674**			**0.693**				**0.702**				**0.711**				**0.711**
LEVEL OF SERVICE (LOS):				**B**			**B**				**C**				**C**				**C**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project: 0.009 — $\Delta v/c$ after mitigation: 0.009

Significant impacted? NO — Fully mitigated? N/A

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Wright Road	Year of Count:	2017	Ambient Growth: (%):	1.0	Conducted by:	NDS	Date:	10/3/2018
CMA03	East-West Street:	Imperial Highway	Projection Year:	2021	Peak Hour:	AM	Reviewed by:	JAS	Project:	5-17-0354-1 - RLASC

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			3			3			3				3				3	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1			1			1				1				1	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		3	EB-- 0 WB--		3	EB-- 0 WB--		3		EB-- 0 WB--		3		EB-- 0 WB--		3	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	14	0	14	0	14	14	0	15	0	15	0	15	0	15	0	15	0	15
	Left-Through		0							0				0				0	
	Through	53	0	67	0	53	67	0	55	0	70	0	55	0	70	0	55	0	70
	Through-Right		0							0				0				0	
	Right	493	2	**271**	0	493	**271**	0	513	2	**282**	0	513	2	**282**	0	513	2	**282**
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	1162	1	**599**	46	1208	**622**	-12	1197	1	**617**	46	1243	1	**640**	0	1243	1	**640**
	Left-Through		1							1				1				1	
	Through	36	0	599	0	36	622	0	37	0	617	0	37	0	640	0	37	0	640
	Through-Right		0							0				0				0	
	Right	46	1	43	0	46	43	0	48	1	45	0	48	1	45	0	48	1	45
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	7	1	7	0	7	7	0	7	1	7	0	7	1	7	0	7	1	**7**
	Left-Through		0							0				0				0	
	Through	1302	1	**657**	91	1393	**702**	-26	1329	1	**670**	91	1420	1	**716**	0	1420	2	477
	Through-Right		1							1				1				1	
	Right	11	0	11	0	11	11	0	11	0	11	0	11	0	11	0	11	0	11
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	0
	Left-Through		0							0				0				0	
	Through	1005	2	503	13	1018	509	-6	1040	2	520	13	1053	2	527	0	1053	2	**527**
	Through-Right		0							0				0				0	
	Right	776	1	177	0	776	154	5	813	1	196	0	813	1	173	0	813	1	173
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		870	*North-South:*		893	*North-South:*		899		*North-South:*		922		*North-South:*		922	
		East-West:		657	*East-West:*		702	*East-West:*		670		*East-West:*		716		*East-West:*		534	
		SUM:		1527	*SUM:*		1595	*SUM:*		1569		*SUM:*		1638		*SUM:*		1456	
	VOLUME/CAPACITY *(V/C)* RATIO:			1.072			1.119			1.101				1.149				1.022	
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.972			1.019			1.001				1.049				0.922	
	LEVEL OF SERVICE (LOS):			E			F			F				F				E	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project: 0.048 — Δ*v/c* after mitigation: -0.079

Significant impacted? YES — Fully mitigated? YES

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Wright Road	Year of Count:	2017	Ambient Growth: (%):	1.0	Conducted by:	NDS	Date:	10/3/2018
CMA03	East-West Street:	Imperial Highway	Projection Year:	2021	Peak Hour:	PM	Reviewed by:	JAS	Project:	5-17-0354-1 - RLASC

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			3			3			3				3				3	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1			1			1				1				1	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0		NB-- 0	SB--	0		NB-- 0	SB--	0	
	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3		EB-- 0	WB--	3		EB-- 0	WB--	3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	28	0	28	0	28	28	0	29	0	29	0	29	0	29	0	29	0	29
	Left-Through		0							0				0				0	
	Through	55	0	83	0	55	83	0	57	0	86	0	57	0	86	0	57	0	86
	Through-Right		0							0				0				0	
	Right	296	2	**163**	0	296	**163**	0	308	2	**169**	0	308	2	**169**	0	308	2	**169**
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	957	1	**525**	8	965	**529**	1	997	1	**547**	8	1005	1	**551**	0	1005	1	**551**
	Left-Through		1							1				1				1	
	Through	93	0	525	0	93	529	0	97	0	547	0	97	0	551	0	97	0	551
	Through-Right		0							0				0				0	
	Right	21	1	16	0	21	16	0	22	1	17	0	22	1	17	0	22	1	17
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	10	1	10	0	10	10	0	10	1	10	0	10	1	10	0	10	1	**10**
	Left-Through		0							0				0				0	
	Through	1226	1	**619**	15	1241	**627**	-4	1272	1	**642**	15	1287	1	**650**	0	1287	2	433
	Through-Right		1							1				1				1	
	Right	12	0	12	0	12	12	0	12	0	12	0	12	0	12	0	12	0	12
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	0
	Left-Through		0							0				0				0	
	Through	998	2	499	73	1071	536	-24	1015	2	508	73	1088	2	544	0	1088	2	544
	Through-Right		0							0				0				0	
	Right	1060	1	535	0	1060	531	3	1106	1	559	0	1106	1	555	0	1106	1	**555**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		688	*North-South:*		692	*North-South:*			716	*North-South:*			720	*North-South:*			720
		East-West:		619	*East-West:*		627	*East-West:*			642	*East-West:*			650	*East-West:*			565
		SUM:		1307	*SUM:*		1319	*SUM:*			1358	*SUM:*			1370	*SUM:*			1285
VOLUME/CAPACITY *(V/C)* RATIO:				0.917			0.926				0.953				0.961				0.902
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.817**			**0.826**				**0.853**				**0.861**				**0.802**
LEVEL OF SERVICE (LOS):				**D**			**D**				**D**				**D**				**D**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project: 0.008 — $\Delta v/c$ after mitigation: -0.051

Significant impacted? NO — Fully mitigated? N/A

APPENDIX H

TRAFFIC SIGNAL WARRANT WORKSHEETS

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 10/11/2017

DIST ____ CO ____ RTE ____ PM ____

CALC JAS DATE 10/9/2018

CHK ____ DATE ____

Major St: Garfield Avenue — Critical Approach Speed 35 mph

Minor St: Monroe Avenue — Critical Approach Speed 25 mph

Speed limit or critical speed on major street traffic > 40 mph..... ☐
or
In built up area of isolated community of < 10,000 population..... ☐ } RURAL (R)

☒ URBAN (U)

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☐ NO ☐
(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)									
	U	R	U	R						Hour
APPROACH LANES	1		2 or More							
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)						
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)						

Condition B - Interruption of Continuous Traffic 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

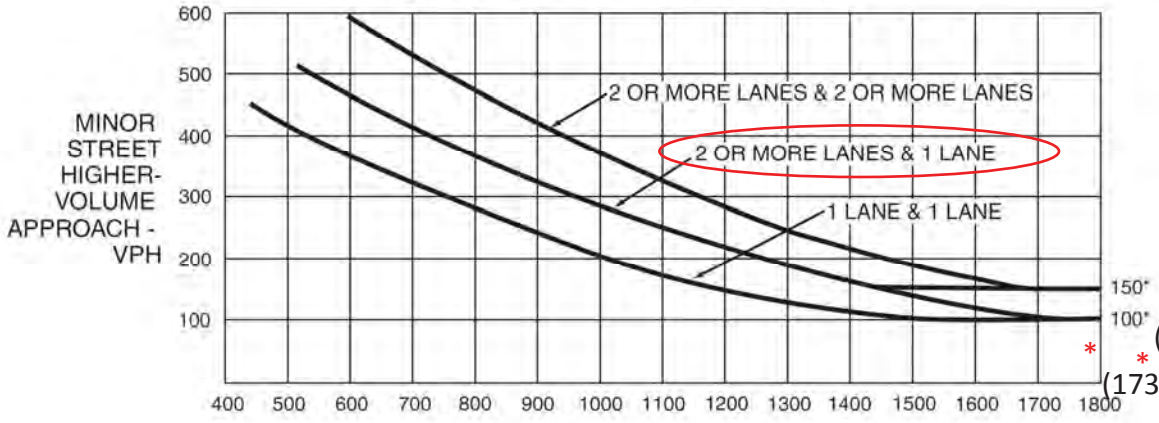
	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)									
	U	R	U	R						Hour
APPROACH LANES	1		2 or More							
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)						
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)						

Combination of Conditions A & B SATISFIED YES ☐ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☐ No ☐
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-3. Warrant 3, Peak Hour

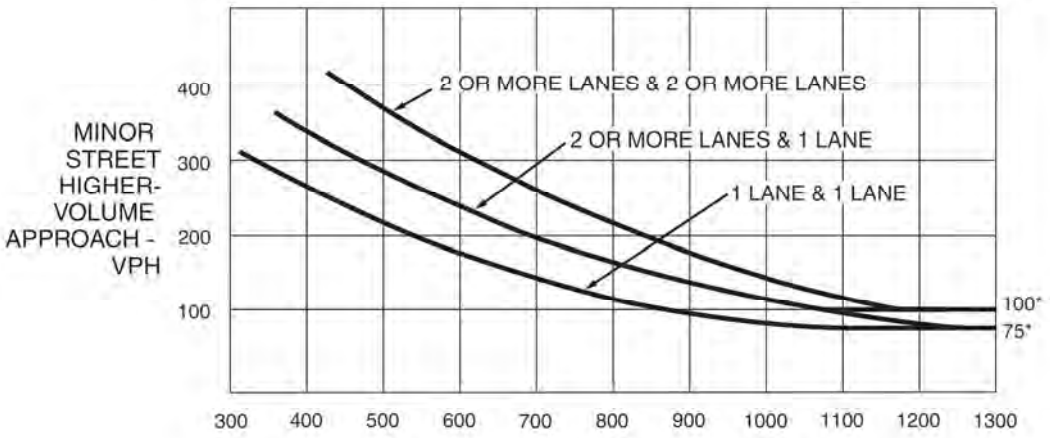


*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

(1944,44) - AM
(1737,54) - PM

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 10/11/2017

DIST ____ CO ____ RTE ____ PM ____

CALC JAS DATE 10/9/2018

CHK ____ DATE ____

Major St: Gardendale Street — Critical Approach Speed 35 mph

Minor St: Industrial Avenue — Critical Approach Speed 25 mph

Speed limit or critical speed on major street traffic > 40 mph..... ☐
or
In built up area of isolated community of < 10,000 population..... ☐ } RURAL (R)

☒ URBAN (U)

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☐ NO ☐
(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				
	U	R	U	R	
APPROACH LANES	1		2 or More		Hour
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)	
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	

Condition B - Interruption of Continuous Traffic 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

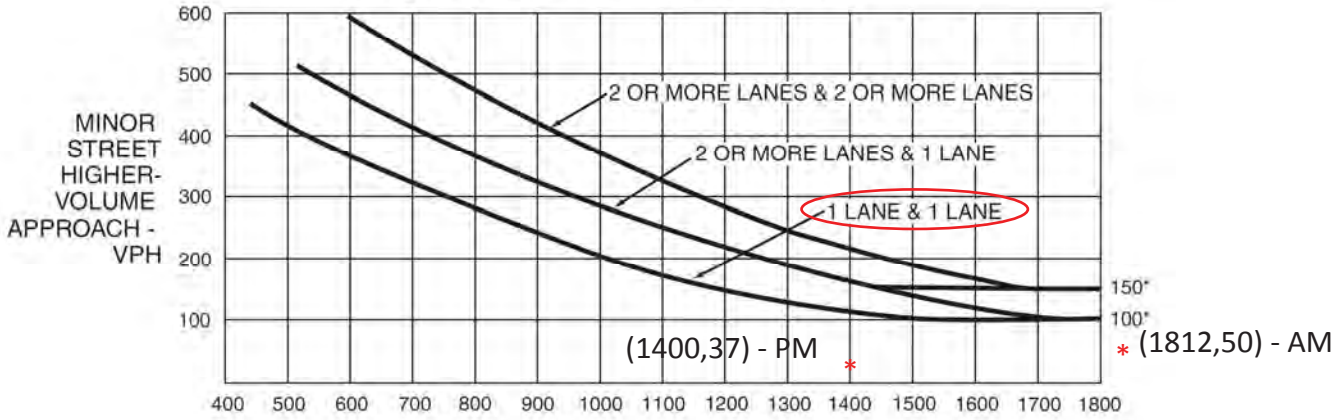
	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				
	U	R	U	R	
APPROACH LANES	1		2 or More		Hour
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)	
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	

Combination of Conditions A & B SATISFIED YES ☐ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☐ No ☐
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

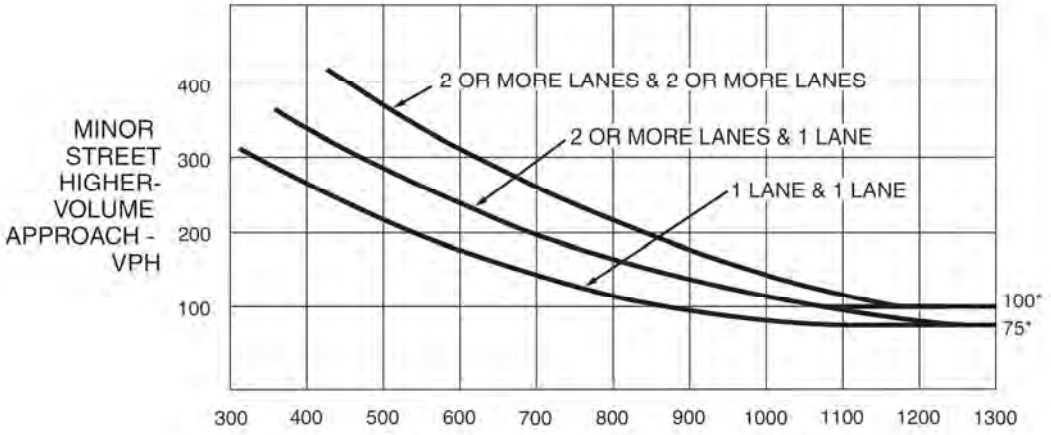
Figure 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 10/11/2017

DIST ____ CO ____ RTE ____ PM ____

CALC JAS DATE 10/9/2018

CHK ____ DATE ____

Major St: Gardendale Street — Critical Approach Speed 35 mph

Minor St: Erickson Avenue — Critical Approach Speed 25 mph

Speed limit or critical speed on major street traffic > 40 mph..... ☐
or
In built up area of isolated community of < 10,000 population..... ☐ } RURAL (R)

☒ URBAN (U)

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☐ NO ☐
(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)			
	U	R	U	R
APPROACH LANES	1		2 or More	
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)

Hour

Condition B - Interruption of Continuous Traffic 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)			
	U	R	U	R
APPROACH LANES	1		2 or More	
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)

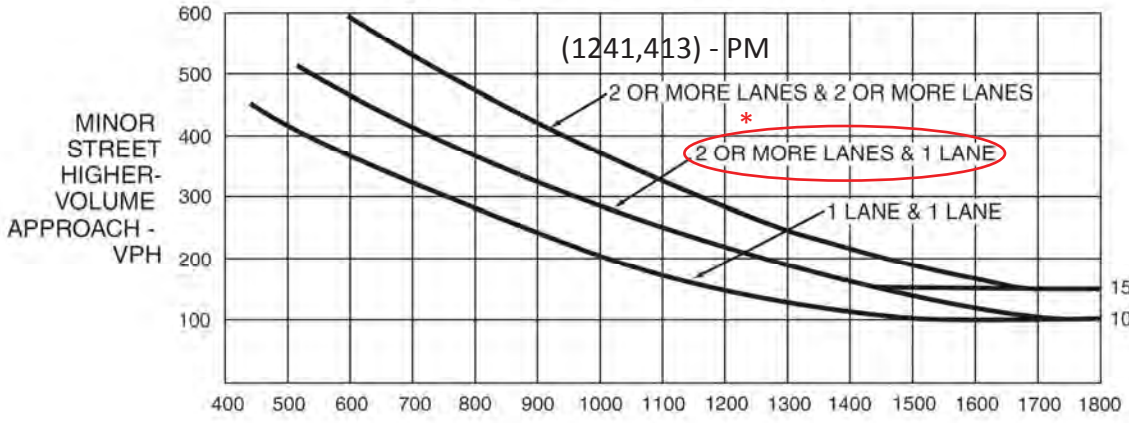
Hour

Combination of Conditions A & B SATISFIED YES ☐ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☐ No ☐
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-3. Warrant 3, Peak Hour

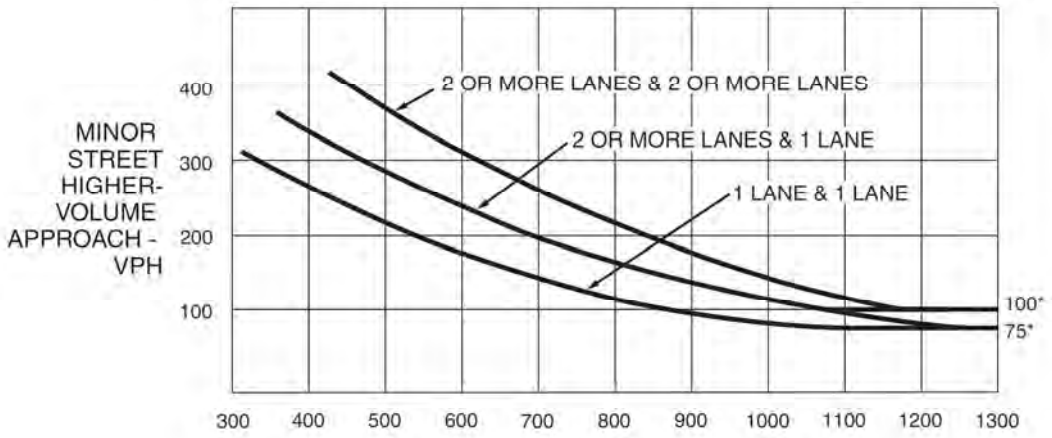


(2042,69) - AM
*

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 10/11/2017

DIST ____ CO ____ RTE ____ PM ____

CALC JAS DATE 10/9/2018

CHK ____ DATE ____

Major St: Gardendale Street — Critical Approach Speed 35 mph

Minor St: Arizona Avenue — Critical Approach Speed 25 mph

Speed limit or critical speed on major street traffic > 40 mph..... ☐
or
In built up area of isolated community of < 10,000 population..... ☐ } RURAL (R)

☒ URBAN (U)

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☐ NO ☐
(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)									
	U	R	U	R						Hour
APPROACH LANES	1		2 or More							
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)						
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)						

Condition B - Interruption of Continuous Traffic 100% SATISFIED YES ☐ NO ☐
80% SATISFIED YES ☐ NO ☐

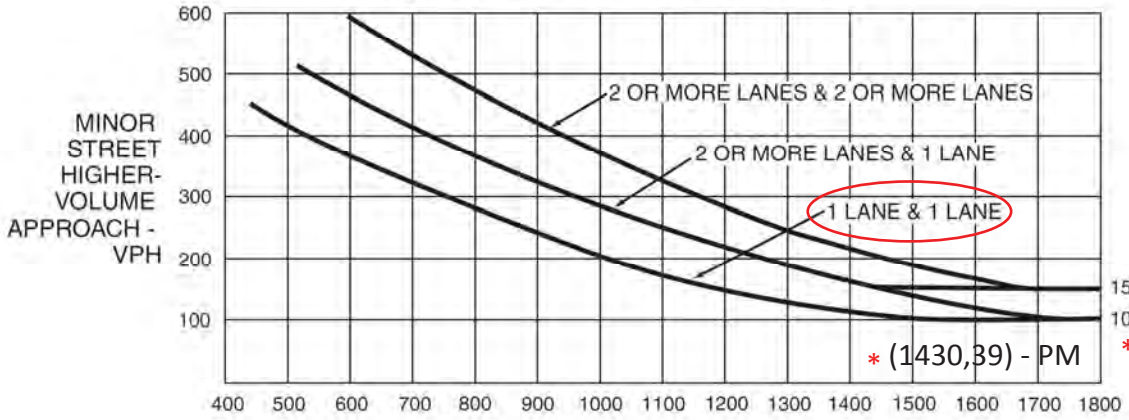
	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)									
	U	R	U	R						Hour
APPROACH LANES	1		2 or More							
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)						
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)						

Combination of Conditions A & B SATISFIED YES ☐ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☐ No ☐
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

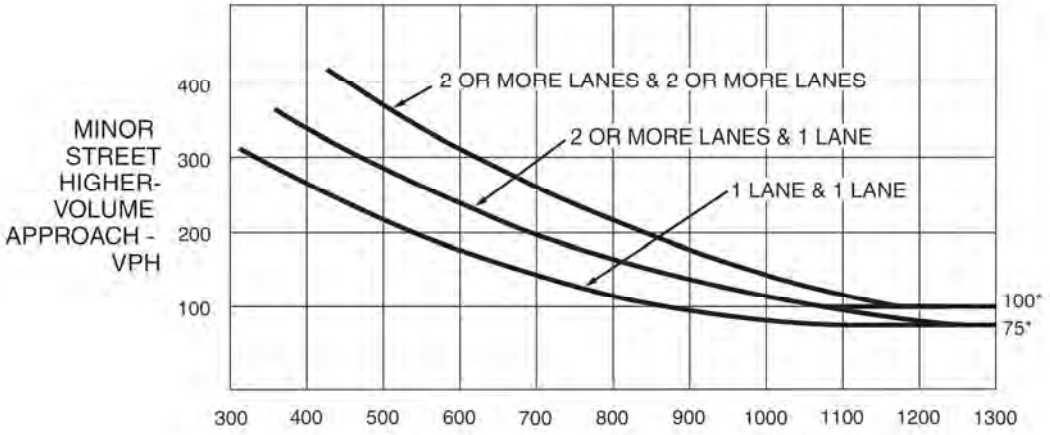
Figure 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

APPENDIX I

Tribal Cultural Resources Documentation

ESA

ESA

2121 Alton Parkway
Suite 100
Irvine, CA 92606
949.753.7001 phone
949.753.7002 fax

www.esassoc.com

June 15, 2017

Native American Heritage Commission
1550 Harbor Blvd., Suite 100
Sacramento, CA 95691

Subject: Sacred Lands File Search and Native American Contact List Request: Proposed Rancho Los Amigos Project, City of Downey, Los Angeles County, California.

Dear Native American Heritage Commission Representative:

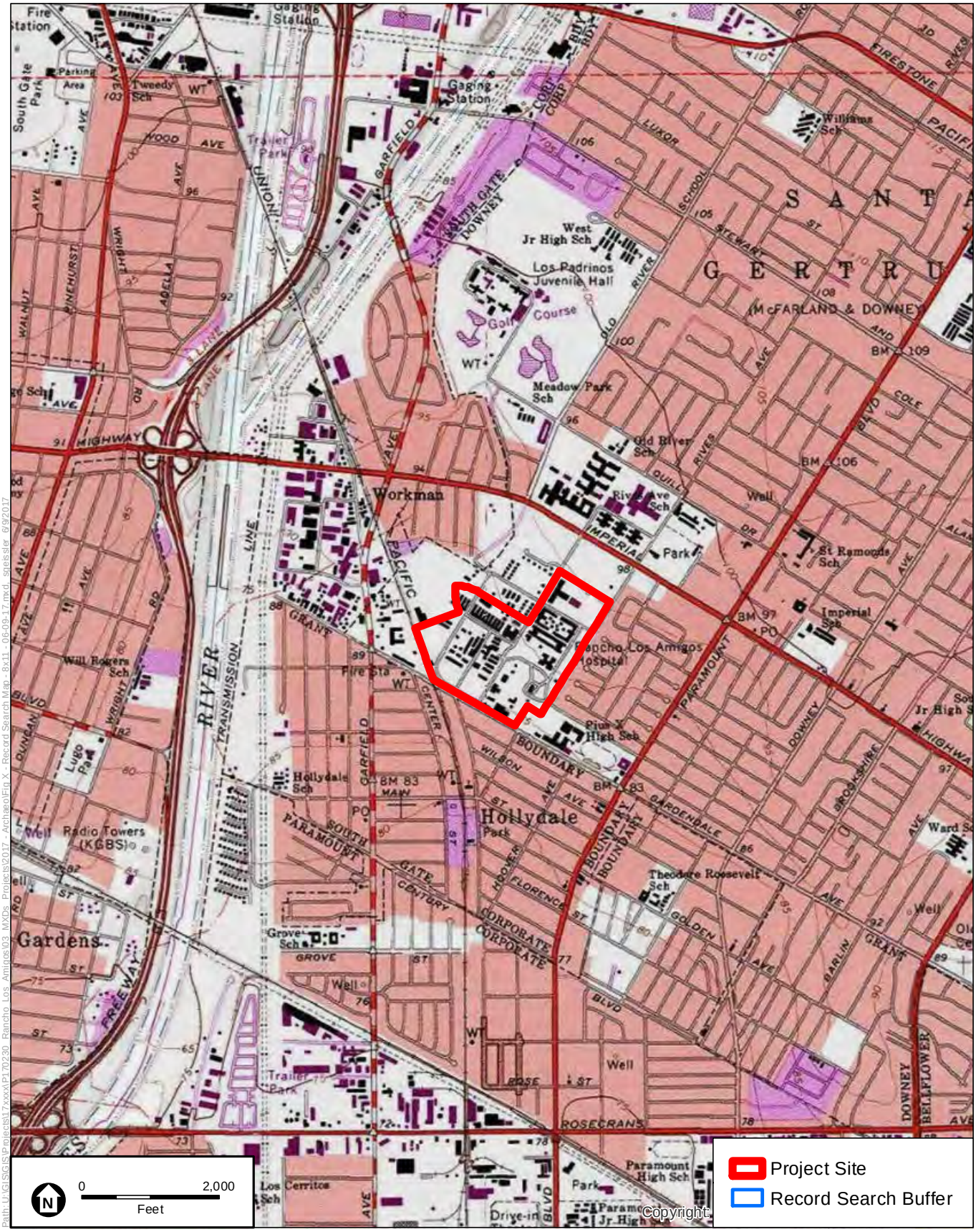
ESA is preparing environmental documentation for the proposed Rancho Los Amigos Project ("the Project") located in the south westernmost part of the city of Downey. The Project is also located within the Rancho Los Amigos Historic District, which is eligible for listing in the NRHP/CRHR under Criterion A for its association with significant events with consensus from the California State Historic Preservation Officer in 1995. As part of the environmental documentation, ESA will prepare an updated Historic District Analysis Report and archaeological and paleontological resource assessment reports.

To ensure that any areas containing previously recorded cultural resources and sacred lands are identified and considered, ESA is requesting a Sacred Lands File search of the Project Site and a Native American Contact List. The Project Site is depicted in an unsectioned area of Township 3 South, Range 12 West of the South Gate, CA United States Geological Survey 7.5' topographic quadrangle map (Figure X, Records Search Map, attached).

Thank you for your assistance with our efforts to address possible Native American concerns that may be affected by the proposed project. If you have any questions or need additional information, please contact me at (949) 753-7001 or via email at fclark@esassoc.com.

Sincerely,

Fatima Clark
Archaeologist



SOURCE: USGS Topographic Series (South Gate, CA).

Rancho Los Amigos

Figure X
Record Search Map

ESA

Path: U:\GIS\GIS\Projects\17xxxx\P170230_Rancho_Los_Amigos\03_MXDs_Projects\2017 - Archaeo\Fig X - Record Search Map - 8x11 - 06-09-17.mxd, speissler 6/9/2017

NATIVE AMERICAN HERITAGE COMMISSION
Environmental and Cultural Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 373-3710

June 21, 2017

Fatima Clark
ES Associates

Sent by E-mail: fclark@esassoc.com

RE: Proposed Rancho Los Amigos Project, City of Downey; South Gate USGS Quadrangle, Los Angeles County, California

Dear Ms. Clark:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst

Native American Heritage Commission
Native American Contact List
Los Angeles County
6/21/2017

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chariperson
P.O. Box 393 Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
gabrielenoindians@yahoo.com

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626)286-1262
GTTribalcouncil@aol.com

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., Gabrielino
#231
Los Angeles, CA, 90012
Phone: (951)807-0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490 Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Rancho Los Amigos Project, Los Angeles County.

Skip To Content (#content)

Tribal Cultural Resources (AB 52)

In preparation for the implementation of AB 52 (2014) , The County of Los Angeles is providing contact information for California Native American tribes that request in writing to be informed when the County of Los Angeles, as the lead agency under the California Environmental Quality Act, considers projects in the geographic area that is traditionally and culturally affiliated with the tribe..

Written requests for notification should include a lead contact person and, if possible, a map of the affiliated geographic area. Please send requests to:
Los Angeles County Department of Regional Planning
Attention: Patricia Hachiya, Impact Analysis Section
320 W. Temple Street, Room 1346
Los Angeles, CA 90012

Contact list of California Native American Tribes which have requested formal notification. *(Updated 01/17/2017)*

- **Fernande&#65533;o Tataviam Band of Mission Indians (http://planning.lacounty.gov/assets/upl/data/ab52_tataviam.pdf)**
  Kimia Fatehi
  Tribal Historic and Cultural Preservation Officer
  Fernande&#65533;o Tataviam Band of Mission Indians
  1019 Second Street
  San Fernando CA, 91340
  Phone (818) 837-0794
  Fax (818) 837-0796
  thcp@tataviam-nsn.us (mailto:thcp@tataviam-nsn.us)
  kfatehi@tataviam-nsn.us (mailto:kfatehi@tataviam-nsn.us)

- **Gabrieleno Tongva (http://planning.lacounty.gov/assets/upl/data/ab52_tongva.pdf)**
  San Gabriel Band of Mission Indians
  Anthony Morales, Chief
  P.O. Box 693
  San Gabriel, CA 91778
  Fax: (626) 286-1262
  Phone: (626) 483-3564
  GTTribalcouncil@aol.com (mailto:GTTribalcouncil@aol.com)

- **Gabrieleno Band of Mission Indians-Kizh Nation (http://planning.lacounty.gov/assets/upl/data/ab52_gabrieleno.pdf)**
  Andrew Salas, Chairman
  Gabrieleno Band of Mission Indians - Kizh Nation
  P.O. Box 393
  Covina, CA 91723
  Phone (626) 926-4131
  gabrielenoindians@yahoo.com (mailto:gabrielenoindians@yahoo.com)

- **San Manuel Band of Mission Indians (http://planning.lacounty.gov/assets/upl/data/ab52_san-manuel.pdf)**

Tribal groups overlapping geographic area of Rancho Los Amigos Project circled in red

Attn: Lee Clauss
26569 Community Center Drive
Highland, CA 92346
(909) 864-8933
SMConsultation@sanmanuel-nsn.gov (mailto:SMConsultation@sanmanuel-nsn.gov)

- **Tejon Indian Tribe (http://planning.lacounty.gov/assets/upl/data/ab52_tejon-indian-tribal.pdf)**
  Mr. Octavio Escobedo
  Tribal Chair
  1761 Hasti Acres Drive, Suite 108
  Bakersfield, CA 93309
  Phone (661) 834-8566
  oescobedo@tejontribe.net (mailto:oescobedo@tejontribe.net)

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: PM-2

August 8, 2017

VIA Priority Fed Ex & E-MAIL
gabrielenoindians@yahoo.com

Chairman Andrew Salas
Gabrieleno Band of Mission Indians – Kizh Nation
P.O. Box 393
Covina, CA 91723

Dear Chairman Salas:

NOTICE OF PROPOSED PROJECT PURSUANT TO PUBLIC RESOURCES CODE SECTION 21080.3.1
RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT

We are sending you this letter to inform you that the County of Los Angeles (County) is preparing an Environmental Impact Report (EIR) for the proposed Rancho Los Amigos South Campus project described below in accordance with Public Resources Code Section 21080.3.1(d). The Gabrieleno Band of Mission Indians – Kizh Nation (Tribe) has requested notification of proposed projects within the geographic area that is traditionally and culturally affiliated with the California Native American Tribe. Per Assembly Bill 52 (AB 52), the Tribe has the right to consult on a proposed public or private project prior to the release of a negative declaration, mitigated negative declaration, or EIR (Public Resources Code Section 21080.3.1(b)).

The County is currently conducting scoping and will be preparing an EIR for the proposed Rancho Los Amigos South Campus Project (proposed Project). The Rancho Los Amigos Campus (Campus) is located on approximately 123 acres of County-owned land within the City of Downey. The Campus is crossed by Imperial Highway, creating two distinct campuses: a 49-acre campus north of Imperial Highway (North Campus), and a 74-acre campus south of Imperial Highway (South Campus). The proposed Project would be located entirely on the South Campus (Project Site), and new facilities described further below would be constructed within a portion of the Project Site, referred to as the Development Area. The Project Site including the Development Area is located entirely on land owned by the County, and is on the western edge of the City of Downey.

The Project Site is approximately 1 mile east of U.S. Interstate 710 (Long Beach Freeway), 1-mile north of U.S. Interstate 105 (Century Freeway), 3.3 miles west of U.S. Interstate 605 (San Gabriel River Freeway), and 3.3 miles northeast of U.S. Interstate 5 (Golden State Freeway). The South Campus is bound by Flores Street and Golondrinas Street to the north, Gardendale Street to the south, Laurel Avenue to the west, the Union Pacific Railroad to the southwest, and a strip that runs east along Consuelo Street to Paramount Boulevard. The proposed Development Area is located in the north part of the 74-acre Project Site, and is bound by Flores Street and Golondrinas Street to the north, the parking lot adjacent to Dahlia Street to the east, Descanso Street and Consuelo Street to the south, and Laurel Avenue to the west (see Figure 1).

The County proposes to develop new County administrative buildings on the Project Site including the Internal Services Department (ISD) Headquarters, Probation Department Headquarters, and a Sheriff's Department Crime Laboratory. The ISD Headquarters would be up to approximately 370,000 square feet; the Probation Department Headquarters would be up to approximately 220,000 square feet; and the Sheriff's Crime Laboratory would be up to approximately 60,000 square feet. The final configuration of these buildings may potentially change through the design process, however, the total square footage for the proposed Project would be up to approximately 650,000 square feet. The ISD and Probation Headquarters buildings would have a maximum height of six stories, and the Sheriff's Crime Laboratory a maximum height of two stories. The proposed Project would include development of a parking structure, with a height not to exceed of nine stories, and surface parking lots to be used for employee and visitor parking. The proposed Project would include all necessary utilities and points of connection, roadways, curbs and gutters, sidewalks, medians, site structures, hydrants, vaults, manholes, substations, street lights, street signage, landscaping and irrigation for the proposed new development. The proposed Project would also include the widening and other street improvements along Erickson Avenue. The proposed Project would also include demolition of all buildings within the Development Area and may include some or all buildings on the remainder of the South Campus. A copy of the Notice of Preparation of the EIR has been attached for your convenience.

Under Section 21080.3.1, the Tribe has 30 days from the date of this letter to request consultation with the County in writing under the process established by AB 52 on the proposed Project. Please provide the lead contact person's contact information in your response. Please contact me as soon as possible at the address listed below and indicate whether you wish to engage in consultation. My contact information is as follows:

ATTN: Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles, Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803
Email: luramire@dpw.lacounty.gov
(626) 300-3230

We look forward to working with you should the Gabrieleno Band of Mission Indians - Kizh Nation elect to engage in the consultation process.

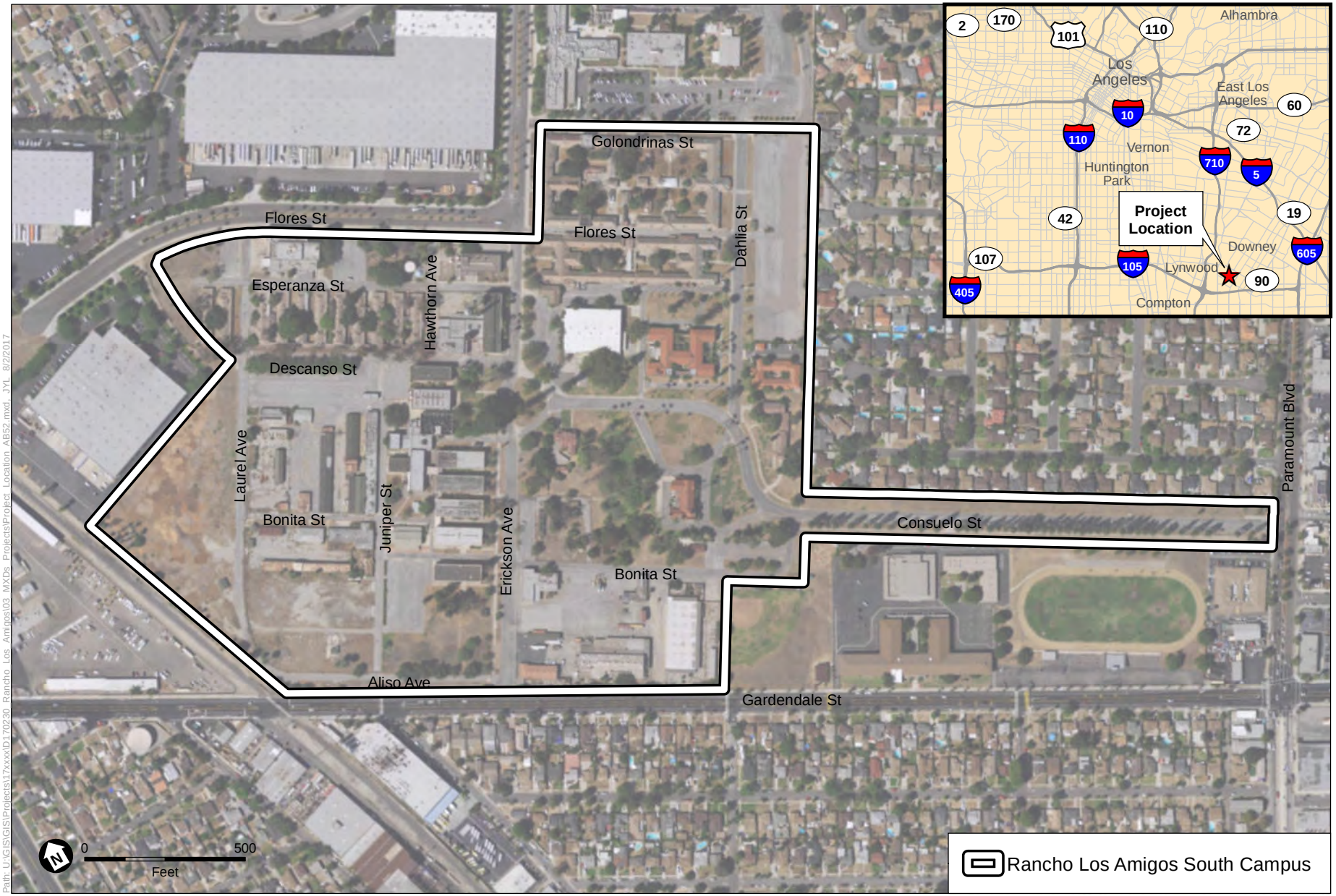
Very truly yours,

MARK PESTRELLA
Director of Public Works

LUIS RAMIREZ
Capital Projects Program Manager
Project Management Division II

LR:ms
U:\pmdII\courts\Rancho\RLA SOUTH CAMPUS\GENERAL\02200 - Non Depart Corres\02203 - Environmental Consultant\ESA\EIR\RLASC_AB52_Gabrielino.doc
Enc.

cc: Chief Executive Office (Hannah Chen)
County Counsel (Lauren Dods)
ESA (Addie Farrell)



Rancho Los Amigos South Campus Project EIR

Figure 1
Project Location

ESA

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: PM-2

August 8, 2017

VIA Priority Fed Ex & E-MAIL
GTTribalcouncil@aol.com

Anthony Morales, Chief
San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, CA 91778

Dear Chief Morales:

NOTICE OF PROPOSED PROJECT PURSUANT TO PUBLIC RESOURCES CODE SECTION 21080.3.1
RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT

We are sending you this letter to inform you that the County of Los Angeles (County) is preparing an Environmental Impact Report (EIR) for the proposed Rancho Los Amigos South Campus project described below in accordance with Public Resources Code Section 21080.3.1(d). The San Gabriel Band of Mission Indians (Tribe) has requested notification of proposed projects within the geographic area that is traditionally and culturally affiliated with the California Native American Tribe. Per Assembly Bill 52 (AB 52), the Tribe has the right to consult on a proposed public or private project prior to the release of a negative declaration, mitigated negative declaration, or EIR (Public Resources Code Section 21080.3.1(b)).

The County is currently conducting scoping and will be preparing an EIR for the proposed Rancho Los Amigos South Campus Project (proposed Project). The Rancho Los Amigos Campus (Campus) is located on approximately 123 acres of County-owned land within the City of Downey. The Campus is crossed by Imperial Highway, creating two distinct campuses: a 49-acre campus north of Imperial Highway (North Campus), and a 74-acre campus south of Imperial Highway (South Campus). The proposed Project would be located entirely on the South Campus (Project Site), and new facilities described further below would be constructed within a portion of the Project Site, referred to as the Development Area. The Project Site including the Development Area is located entirely on land owned by the County, and is on the western edge of the City of Downey.

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Under Section 21080.3.1, the Tribe has 30 days from the date of this letter to request consultation with the County in writing under the process established by AB 52 on the proposed Project. Please provide the lead contact person's contact information in your response. Please contact me as soon as possible at the address listed below and indicate whether you wish to engage in consultation. My contact information is as follows:

ATTN: Mr. Luis Ramirez
Capital Projects Program Manager
County of Los Angeles, Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803
Email: luramire@dpw.lacounty.gov
(626) 300-3230

We look forward to working with you should the San Gabriel Band of Mission Indians elect to engage in the consultation process.

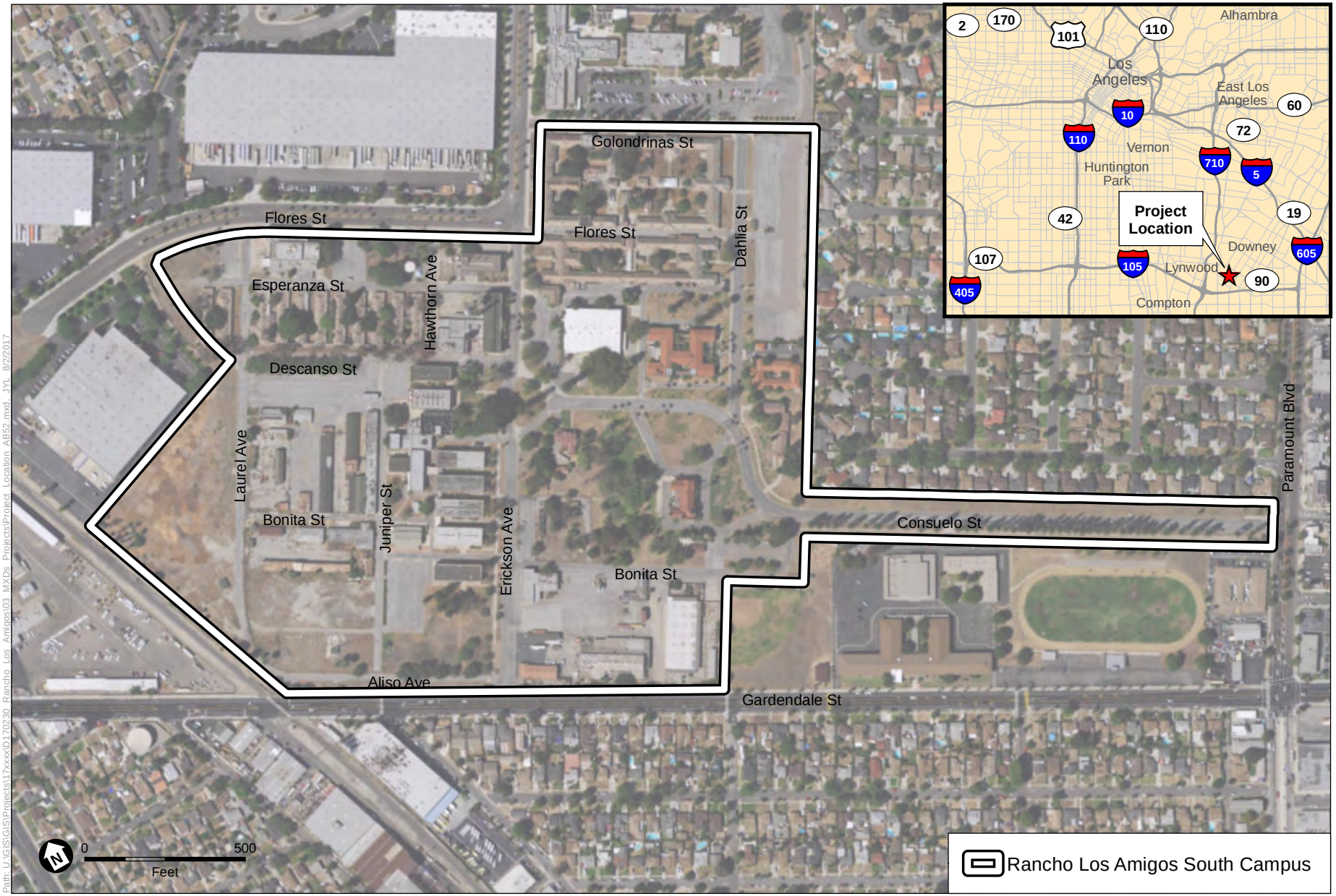
Very truly yours,

MARK PESTRELLA
Director of Public Works

LUIS RAMIREZ
Capital Projects Program Manager
Project Management Division II

LR:ms
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Enc.

cc: Chief Executive Office (Hannah Chen)
County Counsel (Lauren Dods)
ESA (Addie Farrell)



Rancho Los Amigos South Campus Project EIR

Figure 1
Project Location

ESA

From:	Luis Ramirez
To:	Andy; Matt Teutimez.Kizh Gabrieleno; moni.cano@ymail.com; Gary stickel
Cc:	Te-Ling Chou; Addie Farrell; Lauren Dods; Monica Strauss; Candace Ehringer; Hannah Chen
Subject:	RE: Rancho Los Amigos South Campus Project - Notice of Proposed Project Pursuant to Public Resources Code Section 21080.3.1
Date:	Tuesday, August 15, 2017 5:14:19 PM

Dear Chairman Salas,

Thank you for your response to the County's notification letter for the Rancho Los Amigos South Campus Project (proposed project). This email serves to initiate formal government-to-government consultation pursuant to Public Resources Code Section 21080.3.1(e). The County would like to set up a meeting in person or via telephone as soon as possible, and we will be contacting your office to schedule an appointment per your request below. We would like our consultant, ESA, to participate in the meeting since they are currently engaged in cultural resources studies for the proposed project and are preparing the EIR on the County's behalf, as long as there are no objections on your part. A formal letter acknowledging this initiation of government-to-government consultation pursuant to Public Resources Code Section 21080.3.1(e) will follow. In the meantime, if you have any questions about the proposed project or require additional information, please do not hesitate to contact me. The County looks forward to meeting with you and your participation in the proposed project.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: Andy [mailto:gabrielenoindians@yahoo.com]
Sent: Wednesday, August 09, 2017 9:26 PM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>; Matt Teutimez.Kizh Gabrieleno <matt.teutimez@gmail.com>; moni.cano@ymail.com; Gary stickel <dregarystickel@att.net>
Cc: Te-Ling Chou <TCHOU@dpw.lacounty.gov>
Subject: Re: Rancho Los Amigos South Campus Project - Notice of Proposed Project Pursuant to Public Resources Code Section 21080.3.1

Dear Mr. Ramirez
Thank you for your email regarding the above project site location . Your project location is within an area that was formally village area therefore we would like to set up a date to consult regarding this location area. If you can please contact our office to schedule an appointment . Thank you

Rancho Santa Gertrudes was a 21,298-acre (86.19 km^2) 1834 Mexican land grant, in present-day Los Angeles County, California, resulting from a partition of Rancho Los Nietos. A former site of Nacaugna, the rancho lands included the present-day cities of Downey and Santa Fe Springs.[1][2]

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

August 24, 2017

IN REPLY PLEASE
REFER TO FILE: PM-2

VIA Priority Fed Ex & E-MAIL
gabrielenoindians@yahoo.com

Chairman Andrew Salas
Gabrieleno Band of Mission Indians – Kizh Nation
P.O. Box 393
Covina, CA 91723

Dear Chairman Salas:

RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT
ASSEMBLY BILL 52 CONSULTATION

Thank you for your response to the County's notification letter for the Rancho Los Amigos South Campus project (Proposed Project). This letter serves to initiate formal government-to-government consultation pursuant to Public Resources Code Section 21080.3.1(e). As requested in your August 9, 2017, e-mail, the County will be contacting you to set up a meeting to discuss the Proposed Project. If there are no objections on your part, we would like our environmental consultant, ESA, to participate in the meeting, since they are currently engaged in cultural resources studies for the preparation of the Proposed Project's Environmental Impact Report. In the meantime, if you have any questions or require additional information, please call me at (562) 382-6801.

Very truly yours,

MARK PESTRELLA
Director of Public Works

LUIS RAMIREZ
Capital Projects Program Manager
Project Management Division II

LR:ms
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cc: Chief Executive Office (Hannah Chen)
County Counsel (Lauren Dods)
ESA (Addie Farrell)

From:	Luis Ramirez
To:	Andrew Salas; Matt Teutimez.Kizh Gabrieleno; moni.cano@ymail.com; Gary stickel
Cc:	Te-Ling Chou; Addie Farrell; Lauren Dods; Monica Strauss; Candace Ehringer; Hannah Chen
Subject:	RE: Rancho Los Amigos South Campus Project - Notice of ProposedProject Pursuant to Public Resources Code Section 21080.3.1
Date:	Thursday, September 7, 2017 12:58:08 PM

Thank you.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

From: Andrew Salas [mailto:gabrielenoindians@yahoo.com]
Sent: Thursday, September 07, 2017 10:24 AM
To: Luis Ramirez <LURAMIRE@dpw.lacounty.gov>; Matt Teutimez.Kizh Gabrieleno <matt.teutimez@gmail.com>; moni.cano@ymail.com; Gary stickel <dregarystickel@att.net>
Cc: Te-Ling Chou <TCHOU@dpw.lacounty.gov>; Addie Farrell (AFarrell@esassoc.com) <AFarrell@esassoc.com>; Lauren Dods <Ldods@counsel.lacounty.gov>; Monica Strauss <MStrauss@esassoc.com>; Candace Ehringer <CEhringer@esassoc.com>; Hannah Chen <hchen@ceo.lacounty.gov>
Subject: RE: Rancho Los Amigos South Campus Project - Notice of ProposedProject Pursuant to Public Resources Code Section 21080.3.1

Dear Mr. Ramirez,

It was a pleasure speaking with you this morning. This email is to confirm the phone consultation scheduled for:

September 27th, at 11:00am.

As discussed, we will utilize your conference bridge, due to the number of participants who will be joining in the conference call . At your earliest convenience, please provide for us the dial in number and conference bridge.

Thank you for your time, and we look forward to speaking with you and your team soon.

Kindest Regards,

Vivian Martinez

From:	Luis Ramirez
To:	Addie Farrell; Waleed Jouzy - Consultant; Matthew Feldhaus - Consultant; Andrew Salas; matt.teutimez@gmail.com; moni.cano@ymail.com; Gary stickel; Monica Strauss; Candace Ehringer; Hannah Chen; Lauren Dods
Subject:	RE: RLASC AB 52 Consultation - Gabrieleno Band of Mission Indians
Date:	Wednesday, September 13, 2017 4:30:25 PM

Good afternoon,

Below is a proposed agenda for our conference call on September 27th:

1. Team Introductions
2. Project Overview (County)
3. Tribe's Perspective on Cultural Resources (Gabrieleno Band of Mission Indians)
4. Next Steps (County)

We look forward to our discussion.

Luis Ramirez, Architect
Capital Projects Program Manager
Los Angeles County Department of Public Works
Office: (562) 382-6801
Mobile: (626) 614-6545

-----Original Appointment-----
From: Luis Ramirez
Sent: Monday, September 11, 2017 8:30 AM
To: Luis Ramirez; Addie Farrell (AFarrell@esassoc.com); Waleed Jouzy - Consultant; Matthew Feldhaus - Consultant; Andrew Salas; matt.teutimez@gmail.com; moni.cano@ymail.com; Gary stickel; Monica Strauss; Candace Ehringer; Hannah Chen; Lauren Dods
Subject: RLASC AB 52 Consultation - Gabrieleno Band of Mission Indians
When: Wednesday, September 27, 2017 11:00 AM-12:30 PM (UTC-08:00) Pacific Time (US & Canada).
Where: Conference Call

We will use the following call in number:

Conference Call: (855) 339-3724 Pass: 3516

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

July 11, 2019

IN REPLY PLEASE
REFER TO FILE: PM-2

Mr. Andrew Salas, Chairman
Gabrieleño Band of Mission Indians– Kizh Nation
P.O. Box 393
Covina, CA 91723

Dear Mr. Salas:

ASSEMBLY BILL 52 – CONSULTATION FOR THE PROPOSED RANCHO LOS AMIGOS SOUTH CAMPUS PROJECT

On August 8, 2017, the County of Los Angeles sent a letter notifying the Gabrieleño Band of Mission Indians – Kizh Nation (Kizh Nation) of its intent to conduct environmental review of the proposed Rancho Los Amigos South Campus project under the California Environmental Quality Act and requested a response within 30 days if the Tribe wished to engage in government-to-government consultation under Assembly Bill (AB) 52 pursuant to Public Resources Code (PRC) Sections 21080.3.1(b) and 21080.3.1(d). The letter included a description of the proposed project, a map depicting the project location, and the County's contact information, and asked if the Kizh Nation were interested in consulting.

On August 9, 2017, Mr. Salas of the Kizh Nation replied to the County via email requesting consultation on the proposed project. The response requested that the County contact the Kizh Nation's office to schedule a consultation appointment.

On August 15, 2017, the County replied to Mr. Salas via email initiating formal government-to-government consultation with the Kizh Nation in accordance with PRC Section 21080.3.1(e). The County requested to set up a meeting in person or via telephone as soon as possible and indicated that the County would be contacting the Kizh Nation's office to schedule an appointment per their request. The email also asked if the County's consultant, Environmental Science Associates, could participate in the meeting since they were engaged in the cultural resources studies for the proposed project and were preparing an Environmental Impact Report (EIR) on the County's behalf. On September 7, 2017, the County contacted the Kizh Nation via telephone to schedule a consultation meeting via teleconference.

On September 27, 2017, representatives from the County, including representatives from their environmental consultant ESA, and the Kizh Nation consulted via a telephone conference. The purpose of the call was to provide an opportunity for the Kizh Nation to identify resources potentially qualifying as "Tribal Cultural Resources" (as defined by PRC Section 21074). The meeting agenda provided by the County included Team

Introductions, Project Overview (County), Tribe's Perspective on Cultural Resources (Kizh Nation), and Next Steps (County). The County was interested in understanding the nature of any concerns related to resources that could potentially qualify as Tribal Cultural Resources and potential impacts to those resources resulting from implementation of the project, if any were identified, in accordance with PRC Section 21080.3.2. Although the Kizh Nation indicated during the consultation meeting that they considered the project site to be highly sensitive for the presence of archaeological resources, no specific resources that could potentially qualify as "Tribal Cultural Resources" were identified within or immediately adjacent to the project site.

During and after the meeting, the Kizh Nation provided additional information to the County via email. This included a document with the Kizh Nation's standard cultural resources mitigation measures regarding Tribal Cultural Resources and Human Remains and associated funerary objects within the Kizh Gabrieleño Tribal Territory for use in the EIR; photographs of a mortar from another project that had been discussed during the consultation meeting; and a 1938 Los Angeles County map depicting known Native American villages in the county. The materials were reviewed by the County and did not indicate the presence of resources that could potentially qualify as "Tribal Cultural Resources" within or immediately adjacent to the project site.

On January 29, 2018, the County sent a letter to the Kizh Nation indicating the County had considered the verbal and documentary information shared by the Tribe and that no resources potentially qualifying as "Tribal Cultural Resources" as defined in PRC Section 20174 have been identified within or immediately adjacent to the project site. The County further indicated that it considered consultation concluded under PRC Section 21080.3.2(b)(2), that it will consider the information provided in the EIR analysis of Tribal Cultural Resources, and that the Kizh Nation will be added to the list of recipients of the Draft EIR for the project when it is published for public review and welcomes any additional comments to the Cultural Resources or other sections of the EIR.

On February 6, 2018, Mr. Salas of the Kizh Nation replied to the County via email indicating concern about the County's disregard for oral tribal cultural history provided during consultation. Mr. Salas reiterated that the Kizh Nation regarded the project site as highly sensitive for the presence of Tribal Cultural Resources and specifically identified the villages of Sejat and Nacuangna as well as traditional trading routes as being Tribal Cultural Resources. The letter also referenced legal counsel of the Native American Heritage Commission and Executive Order B-10-11 to emphasize that oral history constitutes evidence in support of Tribal Cultural Resources identification. In the letter, Mr. Salas requested that a copy of the project mitigation measures be provided for review. On April 4, 2018, the County sent a letter attachment to the Kizh Nation via email expressing its understanding that during the consultation meeting on September 27, 2017, the Tribe had indicated that the general region, including the project site, were considered sensitive for archaeological resources. Examples cited by the Tribe during the meeting included burials identified at Hawaiian Gardens located 7 miles southeast of the project site and an ergonomic metate in Pomona, located approximately 25 miles northeast of the project site. The County's letter also addressed five specific

areas of importance identified by the Kizh Nation during the consultation meeting (the villages of Sejat and Nacuangna, a trading route near these villages that would later become the El Camino Real, La Jaboneria (soap factory), and digger bees near rover confluences) and provided three map figures, the third of which included the approximate mapped locations of these five resources, all of which are located between 3 and 8 miles from the project site with the exception of the confluence of the Los Angeles and Rio Hondo rivers, located approximately 3/4-mile from the project site. In the letter, the County went on to request confirmation of the mapped resource locations and expressed its understanding of its obligation to assess impacts to Tribal Cultural Resources under the California Environmental Quality Act. No response to the County's April 4, 2018, letter has been received from the Kizh Nation.

The County appreciates the Kizh Nation's interest in this project as well as the verbal and documentary information provided by the Kizh Nation in assisting the County in its consideration of impacts to Tribal Cultural Resources. Based on the information received from the Kizh Nation to date as well as supported by the results of the sacred lands file search conducted by the Native American Heritage Commission, no resource potentially qualifying as a "Tribal Cultural Resource" as defined in PRC Section 21074 has been identified within or adjacent to the project site. Therefore, based on the above description of the consultation process and its results, the County is hereby considering consultation concluded.

The County has added the Kizh Nation to the list of recipients receiving the Draft EIR for the project and welcomes comments from the Tribe during the public review period, aside from the AB 52 consultation process. Thank you for your cooperation and assistance in our effort to identify potential project-related environmental impacts to Tribal Cultural Resources.

If you have any questions, please call me or your staff may contact Mr. Cliff Stokes at (626) 300-3273.

Very truly yours,

MARK PESTRELLA
Director of Public Works

SOHEILA KALHOR
Principal Engineer
Project Management Division II

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cc: Chief Executive Office (Hannah Chen)

APPENDIX J
Water Supply Assessment

ESA

WATER SUPPLY ASSESSMENT

RANCHO LOS AMIGOS -SOUTH CAMPUS

June 2018

TODD GROUNDWATER

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1. INTRODUCTION

1.1. PROPOSED PROJECT DESCRIPTION

Los Angeles County (County) is preparing an EIR to analyze environmental impacts associated with implementation of the proposed 474-acre Rancho Los Amigos South Campus Project (Project Site). The County proposes to develop three new County administrative buildings in the 28-acre Development Area on the Project Site, including the Internal Services Department (ISD) Headquarters, Probation Department Headquarters, and a Sheriff's Department Crime Laboratory. The total staffing for these buildings is expected to be approximately 3,000 employees. The final configuration of these buildings may potentially change through the design process; however, the total square footage for the proposed Project would be up to approximately 650,000 square feet, including:

- ISD Headquarters - approximately 370,000 square feet
- Probation Department Headquarters - approximately 220,000 square feet
- Sheriff's Crime Laboratory - approximately 60,000 square feet

The proposed Project also would include development of a parking structure, with a height not to exceed nine stories, and surface parking lots to be used for employee and visitor parking. The proposed Project plan is shown on **Figure 1** and is expected to be operational by 2021. Additional development to the Rancho Los Amigos South Campus Project is considered in this WSA to quantify the cumulative impact of the entire Project.

The proposed Project would be designed to achieve the Leadership in Energy and Environmental Design (LEED) gold rating (or a successor equivalent standard established by the U.S. Green Building Council) or better. Recycled water would be used on site to reduce the potable water demand. Construction could begin as early as the first quarter of 2019 and is anticipated to last up to approximately 30 months. The proposed Project would also require demolition of existing structures within the Development Area and the larger Project Site. The areas of the buildings demolished within the Project Site would be hydro seeded. This short-term water use is not included in this long-term Water Supply Assessment.

1.2. BACKGROUND

The California Water Code section 10910 (also termed Senate Bill 610 or SB610) requires that a water supply assessment (WSA) be provided to cities and counties for projects (of a specified type and size) that are subject to the California Environmental Quality Act (CEQA). The County recognizes the Rancho Los Amigos South Campus Project as subject to CEQA and SB610. Cities and counties are mandated to identify the public water system that might provide the Project's water supply and then to request a WSA, which includes a discussion regarding whether the public water system's total projected water supplies (available in normal, single dry, and multiple dry years during a 20-year projection) will meet the

projected water demand associated with the proposed Project in addition to the public water system's existing and planned future uses. The City of Downey (City) is the public water provider for the Rancho Los Amigos South Campus Project. Therefore, water supply and demand information for the City of Downey is presented herein.

A foundational document for preparation of the WSA is the Urban Water Management Plan (UWMP). The 2015 UWMP, which was adopted on February 2018, is available and relevant data have been updated by the City where applicable. WSAs and UWMPs both require water supply reliability information to be provided for the water service area in five-year increments over a 20-year planning horizon.

The 2015 UWMP estimates that the existing water service area population is approximately 112,400 persons as of 2015, based upon the California Department of Water Resources (DWR) Population Tool, and is estimated to increase to approximately 123,100 by the year 2030 (Stetson Engineers, 2018). The Project is expected to add a maximum of 3,000 new employees. The 2015 UWMP concludes that if projected imported and local supplies are developed as anticipated, no water shortages are anticipated in the City's service area during the planning period (Stetson Engineers, 2018). Furthermore, these calculations assume per capita consumption of 144 gallons per capita per day (GPCD) (Stetson Engineers, 2018), which is high relative to recent water demand rates and thus would tend to overestimate future water demand. As of June 2015, the City had reduced water use by 20.8 percent and thus achieved its water conservation standard set by the Water Conservation Act of 2009, which called for a 20 percent reduction by 2020 (SWRCB, 2016). The 2015 UWMP provides a more detailed discussion of water sources and supplies, water quality, reliability planning, conservation measures, contingency planning, and water recycling.

1.3. PURPOSE

The purpose of this WSA is to document the City's existing and future water supplies for its service area and compare them to the area's future water demand including that of the proposed Project. This comparison, conducted for both normal and drought conditions, is the basis for an assessment of water supply sufficiency in accordance with the requirements of California Water Code section 10910 (Senate Bill 610).

2. PROJECT WATER DEMAND

This section addresses water demands for the proposed land uses.

2.1. EXISTING WATER USE

The proposed Rancho Los Amigos South Campus Development Area is largely vacant and has been for some time. Previously, the area contained medical uses served by groundwater provided by the County. Water was supplied via groundwater wells operated by the County. While existing water use of the Development Area may include some minor irrigation, water use over the past five years has been minimal and for this WSA, it is assumed to be 0 AFY.

2.2. ESTIMATED FUTURE WATER DEMAND

Estimation of the future water demand for the proposed Project options involves application of water demand factors. The City's UWMP does not include an established methodology for estimating future demand. However, Project consultants provided estimates, which were reviewed for reasonableness. Project water demand estimates are summarized in Table 1.

The engineering consulting firm, KPFF, estimated the water demand of the proposed Project development as well as the demand for a sports center project (a separate project) and open space improvements. These are indicated as additional demand in Table 1. The demands were based on data provided by Syska Hennessy Group and the office of James Burnette; the potable demands total 134 acre-feet per year (AFY).

To confirm the water demand estimates supplied by KPFF, the water demand was calculated using a water use factor and square footage of each building. The proposed Project, Phase 1 B, includes mainly office space, with the ISD Headquarters and Probation Department Headquarters combined to be 590,000 square feet. The remaining 60,000 square feet is the Sheriff's Crime Laboratory. The office water demand factor is estimated at 0.15 gallons per day per square foot (gpd/sf) based on a previous WSA prepared for the City of Burbank (Todd 2017). A typical laboratory currently uses five times as much energy and water per square foot as a typical office building (Watch, 2016). Therefore, the laboratory water use estimate is 0.75 gpd/sf. Laboratory water use could include disinfection of equipment, washing, equipment cooling, and other uses. This check (based on water use factors and proposed area) calculates Project potable demand to be 149.5 AFY, higher than the KPFF estimate, but providing reasonable verification. One explanation for the difference is that the factor-based estimates assume that water demand continues seven days per week and the KPFF estimate assumes potable use for five days per week. For the purposes of this WSA, the KPFF water estimates (which are used in other parts of the EIR) are assumed to ensure consistency of approach.

While no specific landscape plans are provided, general parameters regarding future landscaped areas were considered. All planting areas are to be irrigated using high-efficiency sensors and automatic rain sensor controllers. Plants are expected to be a mix of turf, trees, and ornamental plantings (Gensler, 2017). The minimum requirement for the landscaped area for the Project was estimated using the County's guidelines; these state that 30 percent of the approximately 28-acre development footprint (8.4 acres) should be open space and at

least 50 percent of that should be landscaped, and presumably irrigated (4.2 acres). Accordingly, the estimated landscaped area would be approximately 4.2 acres or 183,000 square feet. Additional water will be used during the construction phase to hydroseed the landscaped area. However, this water demand is not expected to continue past the first six months. Based on this plan for irrigation, this plant mix, irrigation efficiency, and landscaped area, the water demand estimates presented by KPFF [104 acre-feet per year (AFY)] are reasonable. The water demand would be less if artificial turf is used at the Sports Center.

Based on the KPFF water demand estimates, calculation of potable water demand for the proposed Project is shown on **Table 1**. The total water demand at Project completion, 2021, is expected to be 184.7 AFY.

2.3. ESTIMATED FUTURE RECYCLED WATER USE

Recycled water is currently a supply source for the City and may be used to irrigate landscape in the development area. Los Angeles County, the City, and the Central Basin Municipal Water District (CBMWD, the recycled water provider) are working together to extend the recycled water conveyance system to the site (County, 2017). Recycled water eventually will be used for irrigation as well as dual plumbing for restrooms.

To minimize demand on the City's potable water system, developments at this site will be required to use recycled water in dual plumbing and irrigation systems. If a recycled water main is going to be extended to the site, it would be most beneficial to use dual plumbing for toilets and urinals; thereby providing a large reduction in demand of potable water. Once recycled water is implemented at the site for dual plumbing, non-potable demand may increase potentially up to 48 percent. Toilet use is approximately 66 percent of office demand and 13 percent of laboratory uses (USAID, 2017).

Table 1 shows the break-down of potable and non-potable use with complete implementation of recycled water. Non-potable use represents all irrigation water demand, 66 percent of office demand, and 13 percent of laboratory uses. The remaining water demand is assumed to be potable. The total long-term potable and non-potable use for the project is 47.5 AFY and 93.5 AFY, respectively. The cumulative development of the site would have a total potable and non-potable use of 52.2 and 132.5 AFY, respectively.

2.4. FUTURE WATER CONSERVATION

The Water Conservation Act of 2009 (SBx7-7) calls for a 20 percent reduction in urban water use by the year 2020. The water code was amended to require 2015 and 2020 water use targets to be developed in the 2010 UWMPs with updated targets in the 2015 UWMPs. According to the 2010 UWMP, the City set a 2020 compliance target for per capita water consumption of 138.5 GPCD in accordance with Section (10608.20) (b)(3) of the Water Code (Stetson Engineers 2012). Based on per capita water use from 2010 to 2015, the City of Downey has already achieved this compliance target (City of Downey, 2017). The City's water efficiency has increased since 2010, which is partly due to conservation measures and

awareness. Much of the water conservation is a result of Governor Jerry Brown's 2015 executive order mandating a 25 percent reduction in urban potable water use in response to the drought (State of California, 2015). In June 2015, in compliance with the State's executive order, the City approved its Ordinance 15-1341 which mandated water conservation regulations and restrictions.

The water conservation measures limit outside watering of potable water to only six minutes, two to three days a week (depending on the time of year), between 7 pm and 8 am; require that leaks are fixed within four days; prohibit watering within 48 hours after a rain event; and place restrictions on filling and refilling of pools, spas, and ponds (City of Downey 2016). Other measures require automatic shut off nozzles for hoses, restrict irrigation run off, prompt leak repair, and restrict swimming pools, for example. These measures were made permanent and are still active (City of Downey, 2017). Since June 2015, the City achieved its conservation standard by reducing water use by 20.8 percent (SWRCB, 2016).

Because of these regulations and the environmentally-aware design of the Project, water demand (especially landscape irrigation) could be lower than estimated. However, recycled water is not required to be conserved during drought periods. Given that much of the demand will be satisfied by recycled water, the more conservative pre-conservation water demand estimates were applied in the WSA to ensure adequate supply for the Project.

3. CITY OF DOWNEY WATER DEMAND

This section summarizes water demands for the City's service area, the proposed retailer for the Project.

The first part describes the factors affecting total water demand, including climate, population and employment, plus the mix of customer types, such as residential, commercial, agricultural and industrial. The second part documents water demands, not only under normal climatic conditions, but also during drought.

3.1. CLIMATE

Climate has a significant influence on water demand on a seasonal and annual basis. This influence increases with the portion of water demand for outside uses, specifically landscape irrigation.

Table 2 summarizes representative climate data for the City, including average monthly and annual rainfall and evapotranspiration (ETO) from the California Irrigation Management Information System, Monrovia (CIMIS) station (CIMIS, 2017). The City has a semi-arid, Mediterranean climate, characterized by dry summers and wet winters with year-round moderate-to-warm temperatures. Reflecting this pattern, water demand in the City is greater in the summer than in the winter.

As it would for the entire region, climate change may affect future water supply availability for the City by reducing water availability, changing local precipitation patterns, and increasing water demands. As discussed in greater detail below, the City largely relies on groundwater but is increasing its recycled water supply source to help offset potable demand.

California recently experienced a serious drought in 2012-2015, and is still recovering. In response, and as summarized in Section 2.4, the City passed permanent water conservation measures in June 2015.

3.2. POPULATION

City population, a key factor in water demand, is analyzed in the 2015 UWMP. **Table 3** reproduces the UWMP population value for the City's water service area with projections to 2040.

3.3. CURRENT WATER USE SECTORS AND WATER DEMAND

Table 4 documents the historical water demand for the City's service area by water use sectors for fiscal years 2010 through 2015 from the DWR Public Water Supply Statistic (PWSS) reports (DWR PWSS 2010-2015). The water use sectors (customer types) are listed on the left. Water demand data by sector were available only through 2011; for subsequent years, the sectors were adjusted proportionally based on total supply. Overall during the six-year period, total water use declined slightly, reflecting the success of water conservation programs among other factors. Unaccounted water, which includes routine pipeline flushing, unmetered use, water losses and inaccurate meter registration, is approximately 15.4 AFY (DWR PWSS 2010-2015).

3.4. PROJECTED WATER DEMAND

Table 5 summarizes actual 2015 and projected water demands for the City's service area from 2020 to 2040. The demand per sector was based on the projected required supply from the City, described in section 4 on the PWSS and distributed by sector based on available historical water demand by sector (PWSS, 2017). Overall, the projections indicate increasing water demands to 2040 for each water use sector. The projected residential and commercial water demands reflect water demand increases associated with general commercial and residential growth in the City, and have not been allocated to specific development projects.

3.5. WATER DEMAND IN NORMAL AND DROUGHT PERIODS

Water conservation is important to Southern California's water sustainability with direct effect on water demand, particularly during drought. As summarized in Section 2.4, the Water Conservation Act of 2009 calls for a 20 percent reduction in urban water use by the year 2020. In June 2015, the City of Downey Ordinance 15 -1341 mandated various water

conservation practices including limits on landscape irrigation practices, exterior washing, recreational use, and indoor use. The City is also a partner in The California Water Efficiency Partnership (formerly the California Urban Water Conservation Council). The CWEP provides resources, innovation, leadership and expertise on water efficiency for its partners. The group assembled 14 Best Management Practices for water conservation, which generally coincide with the five Demand Management Measures (DMMs) outlined in the Urban Water Management Plan guidelines, as follows:

- BMP 1: Utility Operations
- BMP 2: Public Education and School Education
- BMP 3: Residential Programs
- BMP 4: Commercial, Institutional, and Industrial Programs
- BMP 5: Landscape Programs

The total future demand may be lower than estimated as the City implements these best management practices for water efficiency.

4. CITY OF DOWNEY WATER SUPPLY

The City of Downey is the water retailer and provides water supply for domestic, irrigation and fire protection use. The 2015 UWMP states that the City overlies and pumps groundwater from the Central Basin, which is its principal source of potable water.

Table 6 lists the historical water supply sources from 2010 to 2016. Based on the seven-year average presented on **Table 6**, groundwater contributes 95 percent of the total water supply for Downey and 100 percent of potable supply. Recycled water contributes 5 percent of the total supply. Imported water is listed in **Table 6**, but has not been utilized since 2001.

The Rancho Los Amigos South Campus Project will utilize recycled water as a future water supply. As part of the development, connections to the recycled water system will be installed.

4.1. GROUNDWATER

As indicated in **Table 6**, groundwater is the main source of water supply for the City. Groundwater is pumped from the Coastal Plain of Los Angeles County Groundwater Basin, Central Basin, designated by the Department of Water Resources (DWR) as groundwater basin number 4-11.04 (DWR, 2003). The Central Basin is the southeastern portion of the Coastal Plain with a surface area of 277 square miles. The basin extends southeast to Coyote Creek and southwest to the Newport-Inglewood fault system.

The water bearing deposits include the unconsolidated and semi-consolidated marine and alluvial sediments of Holocene, Pleistocene, and Pliocene ages. The Holocene alluvium, (Gaspur and Semiperched aquifers), Pleistocene Lakewood (Bellflower and Gardena aquifers), and San Pedro Formations (Silverado aquifer) are the main groundwater

producing units. The storage capacity for the Central Basin is approximately 13.8 million AF (DWR, 2003).

Groundwater extraction by pumping wells is the primary means of groundwater discharge from the basin. The basin receives inflow from artificial recharge projects, subsurface flow from the San Gabriel Valley, and percolation from rainfall. DWR estimated groundwater for urban use in the basin at 217,367 AFY.

The Salt and Nutrient Management Plan (SNMP) for the Central Basin and West Coast Basin (Todd Groundwater, 2015) documents that average salt and nutrient concentrations in the West Coast Basin groundwater do not meet water quality objectives of the Regional Water Quality Control Board because of historical seawater intrusion. However, existing and planned implementation measures (including the barrier projects, desalters, recharge projects and other programs) ensure that salt and nutrient levels in groundwater will achieve the objectives in the future.

In 1961, the West Coast Basin was adjudicated to prevent overpumping (which caused seawater intrusion) and to restore groundwater levels. The Court appointed DWR to serve as Watermaster and account for water rights and groundwater extraction. As part of the adjudication, the Central and West Basin Water Replenishment District (WRD)[1] was created to manage, regulate, and replenish the Central and West Coast Basins.

On January 2, 1962, the WRD filed Case No. 786,656 in the Superior Court, County of Los Angeles, naming more than 700 parties as defendants. It sought to adjudicate water rights of groundwater and regulate pumping from the Central Basin. The first Central Basin Judgment became effective on October 1, 1966. The first amendment to the Judgment was implemented on March 21, 1980, and transitioned the administrative year from a water year (October 1 to September 30) to a fiscal year (July 1 to June 30). On May 6, 1991, the Judgment was amended again to modify the carryover and overproduction provisions. The Judgment was most recently amended by the Court in December 2013, which effected a water storage program. The City has an Allowed Pumping Allocation (APA) of 16,553.62 AFY. However, the total can be adjusted based on carryover rules and additional water can be leased from other water rights holders in the Central Basin.

The City operates and maintains 20 deep groundwater well sites and three MWD imported water connections. The proposed Project site contains an existing LA County well, but the Project does not include the use of this well or installation of new water wells. The City will provide groundwater from their existing network.

4.2. RECYCLED WATER

Although the property does not currently receive recycled water, the City is actively pursuing opportunities to increase its use of recycled water. The City purchases recycled

[1] Renamed Water Replenishment District (WRD) of Southern California

water from Central Basin Municipal Water District (CBMWD). CBMWD purchases and resells tertiary-treated recycled water produced at the Los Angeles County Sanitation Districts Los Coyotes and San Jose Creek Water Reclamation Plants. The City uses recycled water for irrigation of landscaping and replenishment of several park ponds. Businesses at the Downey Promenade also use recycled water in dual plumbing equipped restrooms.

As presented on **Table 6**, the City used an average of approximately 731 AFY of recycled water between 2010 and 2016, accounting for approximately 5 percent of the water supply.

4.3. IMPORTED WATER

Imported water provided by MWD from the Colorado River and the Sacramento-San Joaquin River Delta (Delta) is purchased and delivered to the City. These two sources provide Southern California with approximately 2 million acre-feet (MAF) of water annually for urban uses. The Colorado River provides approximately 4.4 MAF annually for agricultural and urban uses while the Delta supplies Southern California with over 1 MAF annually. MWD receives its water supply via the Colorado River Aqueduct and the California Aqueduct. The Colorado River Aqueduct, managed by MWD, is 242 miles long and conveys water from the Colorado River to Lake Matthews. The California Aqueduct, part of the State Water Project and operated by the California Department of Water Resources, is 444 miles long and carries water from the Delta to Southern California (Stetson Engineers, 2018).

MWD distributes imported water to its 26 members, including the Central Basin Municipal Water District (CBMWD), the water wholesaler that has supplied water to the City. Until fiscal year (FY) 2000-01, the City purchased small amounts of treated imported water from CBMWD when needed to augment the City's annual potable water supplies. Beginning in FY 2000-01, groundwater became the sole source of drinking water for the City. Due to the high cost of the imported CBMWD water, the City intends to rely solely on its groundwater wells to meet the potable water demands of its customers into the future. However, the City will continue to maintain its imported water connections with CBMWD by paying readiness–to-serve and capacity charges to CBMWD in the event this water is ever needed for emergency purposes.

4.4. WATER SUPPLY IN NORMAL AND DROUGHT PERIODS

The California Water Code requires a WSA to include discussion of how supply will meet demand during normal, single dry, and multiple dry years during a 20-year projection. The City's 2015 UWMP provides discussion of water supply and demand in normal and drought periods, included herein by reference. The UWMP documents the City's Water Contingency Plan adopted as Ordinance No. 925 that includes a four-stage water-rationing plan, with reductions of up to 50 percent (Stetson Engineers, 2018). The four stages implement various consumption reduction methods to reduce demand by 15, 25, 35, and 50 percent for stages I through IV respectively.

Based on the City's projected water supply, **Table 7** summarizes water supply and demand for the City for a normal year. The increase in water supply and demand was estimated by Dan Mueller, Principal Engineer and Utilities Manager at the City of Downey (Downey 2017). Groundwater and recycled water demand are estimated to increase by 2.8 percent annually until fiscal year 2020 and then 1 percent annually through 2040.

Tables 8 and **9** show supply and demand in single-year and multi-year dry conditions. The available water supply in a single-dry and multiple dry years was estimated using the observed ratio of normal to dry years in past years. The historical normal year was selected as FY 2007-08 (or 18,402 AF) and FY 2011-12 (or 16,886 AF) was used as a historical single dry year. The historical multiple dry year period including FY 2011-12, FY 2012-13, and FY 2013-14 (or 16,886 AF, 17,215 AF, and 17,279 AF, respectively) was used to estimate the City's projected water demands during a multiple dry year period. Recycled water supply is expected to remain constant throughout either drought.

The City can expect to meet future demands for both single and multiple dry years through 2040 (Stetson Engineers, 2018). Even so, future drought response would follow the water use efficiency mandates as shown through the most recent drought.

4.5. PROJECTED WATER SUPPLY

Table 7 shows the projected supply in Downey in a normal year. The total water demand of the Project is anticipated to be met with the current portfolio of supply discussed in the following section. Groundwater production is capped at the City's adjudicated Allowed Pumping Allocation (APA) of 16,553.62 AFY. The December 2013 amendments to the Judgment allows for a party to the Judgment to store up to 50 percent of that Party's Allowed Pumping Allocation. Unused Pumping Allocations may be converted to stored water. The stored water may be used to adjust the carryover volume equal to the difference between 60 percent of the party's Allowed Pumping Allocation and unused Allowed Pumping Allocation converted to storage. The City is allowed to store up 200 percent (33,107 acre-feet) of its 16,553.62 acre-feet Allowed Pumping Allocation. According to the 2015 UWMP (Stetson Engineers, 2018), if additional supply is needed, it can be leased from other water rights holders in the Central Basin.

5. COMPARISON OF SUPPLY AND DEMAND

The City of Downey 2015 Urban Water Management Plan (adopted February 2018) did not specifically include the South Campus Project but did recognize potential commercial, institutional, and industrial expansion.

As shown in **Table 1** for the proposed Project Phase 1, the City water demand would experience a net increase of 47.5 AFY in potable water demand and a net increase of 93.5 AFY in non-potable demands. This assumes that recycled water deliveries would serve all

irrigation demand and dual plumbing is fully implemented. For the City, these increases are within planned increases in water demand. The commercial sector is expected to increase in demand from 2,702 in 2015 to 3,511 AFY in 2040 (Table 5), an increase of 809 AFY.

Table 1 also shows the projected cumulative water demand for the Sports Center, other Open Space Irrigation, and the HOME Project. Together, the water demand for all facilities on the south campus is 52.2 AFY and 132.5 AFY for potable demand and non-potable respectively. There are no other approved projects considered in the City at this time, but other projects may be considered in the future.

As documented in **Tables 7**, **8**, and **9**, the City has sufficient water supply for existing water demands and projected water demands, including the demand of the proposed Project, if it can lease additional supply in normal years as expected. Projected water demands may be less than projected with implementation of ongoing conservation measures. The City has sufficient water supply to manage demand in single dry, and multiple dry years during a 20-year projection.

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Table 1. Estimation of Average Future Water Demand

Water Demand	Demand (gpm)	Indoor Demand (AFY)	Irrigation Peak Demand(AFY)	ETo Factor	Near-term Irrigation Demand (AFY)	Long-term Average Irrigation Demand (AFY)	Non-Potable Fraction of Demand	Non-Potable Demand (AFY)	Potable Demand (AFY)
Project									
Crime Lab Building	22	9.5	---	---	---	---	30%	2.9	6.6
Parking Structure	0	0.0	---	---	---	---	---	0.0	0.0
Probation Building	101	43.6	---	---	---	---	66%	28.8	14.8
ISD Building	177	76.5	---	---	---	---	66%	50.5	26.0
Irrigation Demand	35	---	18.8	0.6	11.4	11.4	100%	11.4	---
PROJECT TOTAL		**129.6**	**18.8**	**---**	**11.4**	**11.4**	**---**	**93.5**	**47.5**
Additional Demand									
Sports Center Building	1	0.4	---	---	---	---	0%	---	0.4
Sports Center Irrigation	55	---	29.6	0.6	17.9	17.9	100%	17.9	---
Hydroseeding	165	---	88.7	0.6	53.6	---	100%	---	---
Open Space Irrigation	65	---	34.9	0.6	21.1	21.1	100%	21.1	---
HOME Project, Public Safety	10	4.3	---	---	---	---	0%	---	4.3
ADDITIONAL DEMAND TOTAL	---	**4.8**	**153.2**	**---**	**92.6**	**39.0**	**---**	**39.0**	**4.7**
Cumulative Total									
CUMULATIVE TOTAL	**---**	**134.4**	**172.1**	**---**	**103.9**	**50.3**	**---**	**132.5**	**52.2**

Source: KPFF RLA South Campus Water Demand (Estimate Average Load)

Table 1a. Check of the Estimation of Future Water Demand, Project

Water Demand	Office/Lab Area (sq ft)	Demand (gpd per sqft)	Demand (gpd)	Potable Demand (AFY)
Project				
Crime Lab Building	60,000	0.75	45,000	50.4
Probation/ ISD Building	590,000	0.15	88,500	99.1
PROJECT TOTAL			**133,500**	**149.5**

Source: Water Factors from WSA for Burbank, Todd 2017

Table 2. Climate Data

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Rainfall[1] (in)	2.88	3.15	1.69	0.66	0.26	0.08	0.03	0.08	0.01	0.58	0.73	2.14	**12.29**
ETo[2] (in)	2.20	2.41	3.71	4.36	5.29	5.78	6.55	6.02	4.87	3.40	2.38	1.90	**48.87**

Source: (2020 - 2040) City of Downey 2015 UWMP, Section 3.3

1) Los Angeles County Department of Pulic Works, Station 1256, 1986 - 2015
2) Monrovia CIMIS Station #159, Sept 2000 - Aug 2017

Table 3. Population Projections

Population[1]	2015	2020	2025	2030	2035	2040
Citywide Population	112,354	116,741	121,077	123,103	125,163	127,257
Assumed Annual Growth	---	0.77%	0.73%	0.33%	0.33%	0.33%

Source: (2020 - 2040) City of Downey 2015 UWMP, Table 3-1.

Table 4. Historical Water Demand by Water Use Sectors (AFY)

Customer Type	Actual Water Demand (AFY)		Projected Water Demand (AFY)					Average
	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	
Single-Family Residential	8,262	8,398	8,846	8,879	8,103	7,148	7,375	51.4%
Multi-Family Residential	3,102	3,092	3,289	3,301	3,013	2,658	2,742	19.1%
Commercial/Institutional	2,208	2,734	2,624	2,633	2,403	2,120	2,187	15.2%
Industrial	814	511	703	706	644	568	586	4.1%
Landscape Irrigation	649	1,179	971	974	889	784	809	5.6%
Other	15	16	16	16	15	13	14	0.1%
Unmetered*	694	202	31	31	28	25	26	0.2%
Total Potable Sales	**15,744**	**16,132**	**16,471**	**16,473**	**15,030**	**13,239**	**13,605**	**95.6%**
Non-potable demand	658	754	744	806	738	671	747	4.4%
TOTAL WATER CONSUMPTION	**16,402**	**16,886**	**17,215**	**17,279**	**15,768**	**13,911**	**14,352**	**100.0%**

Source: PWSS (2010-2016), totaled for the fiscal year

*Unmetered water includes additional water supplied but not reported

Table 5. Projected Water Demand by Water Use Sectors (AFY)

Customer Type	Actual Demand	Projected Water Demand (AFY)				
	2015	2020	2025	2030	2035	2040
Single-Family Residential	7,730	9,214	9,556	9,716	9,878	10,044
Multi-Family Residential	3,003	3,579	3,712	3,774	3,838	3,902
Commercial/Institutional	2,702	3,221	3,340	3,396	3,453	3,511
Industrial	452	539	559	568	578	587
Institutional/Governmental	647	771	800	813	827	841
Landscape Irrigation	195	232	241	245	249	253
Other	127	151	157	160	162	165
Agricultural	0	0	0	0	0	0
Wholesale	0	0	0	0	0	0
Losses	174	207	215	219	222	226
Total Potable Sales	**15,030**	**17,914**	**18,580**	**18,891**	**19,207**	**19,529**
Non-Potable Demand	738	800	850	870	890	910
TOTAL WATER CONSUMPTION	**15,768**	**18,714**	**19,430**	**19,761**	**20,097**	**20,439**

Source: (2020 - 2040) City of Downey 2015 UWMP, Tables 4-1 and 4-2.

Table 6. Historical Water Supply Sources (AFY)

Water Supply Sources	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	7 Year Average
Groundwater	15,744	16,132	16,471	16,473	15,030	13,239	13,605	15,242
Recycled Water	658	754	744	806	738	671	747	731
Imported Water from MWD	-	-	-	-	-	-	-	-
TOTAL	**16,402**	**16,886**	**17,215**	**17,279**	**15,768**	**13,911**	**14,352**	**15,973**

Source: City of Downey, fiscal year values

Table 7. Normal Year Supply and Demand Comparison (AFY)

Water Sources	2020	2025	2030	2035	2040
Available Supply (AF)					
Groundwater	17,914	18,580	18,891	19,207	19,529
Recycled Water	800	850	870	890	910
Imported Water	0	0	0	0	0
Total Supply	**18,714**	**19,430**	**19,761**	**20,097**	**20,439**
Demand (AF)					
Total Normal Demand	**18,714**	**19,430**	**19,761**	**20,097**	**20,439**
Supply/Demand Comparison					
Supply/Demand Difference	**0**	**0**	**0**	**0**	**0**

Source: (2020 - 2040) City of Downey 2015 UWMP, Tables 4-1, 4-2, 4-3, 6-8, 6-9 and 7-2.

Table 8. Single Dry Year Supply and Demand Comparison (AFY)

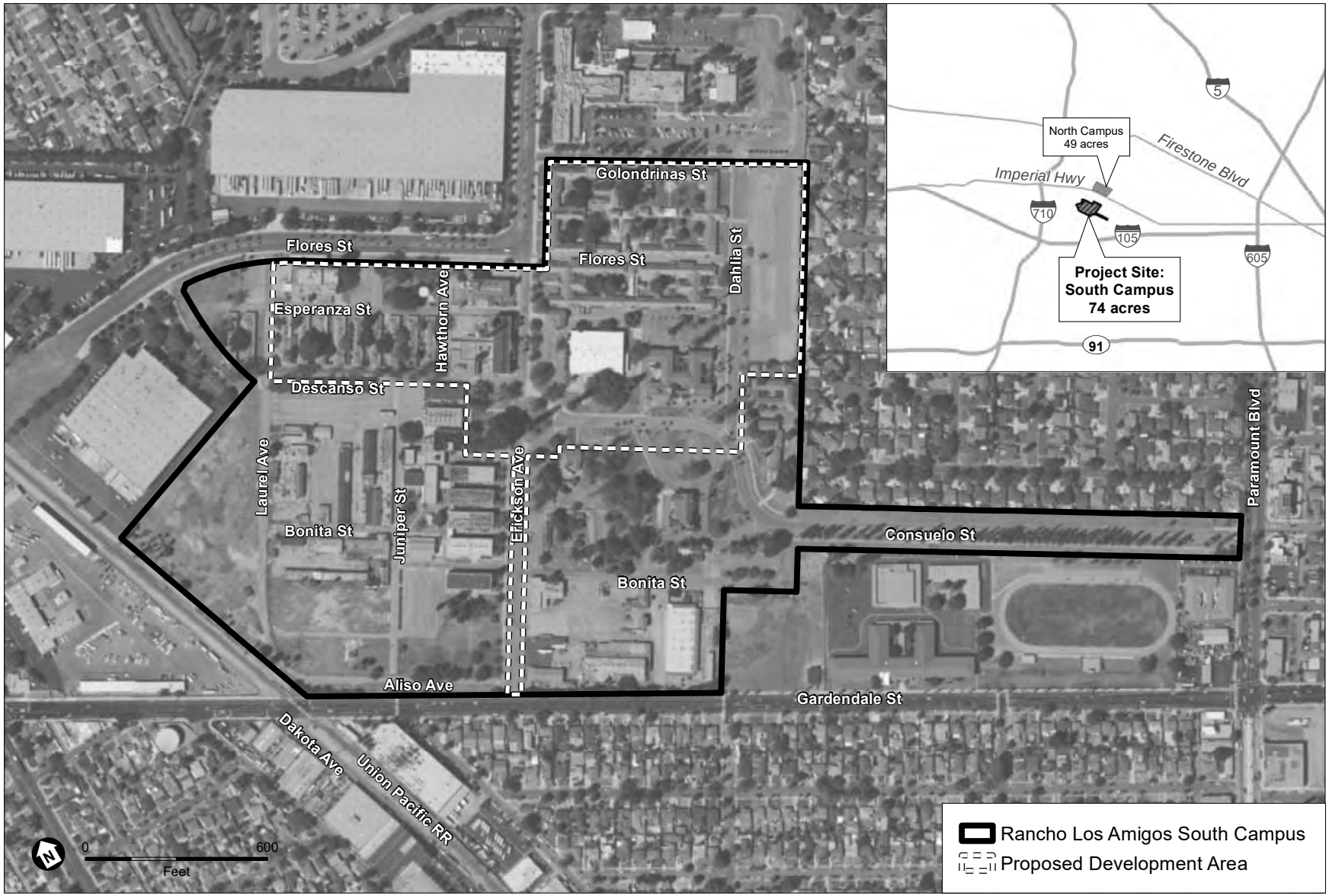
Water Sources	2020	2025	2030	2035	2040
Available Supply (AF)					
Total Supply	**17,218**	**17,876**	**18,180**	**18,489**	**18,804**
Normal Year Supply	18,714	19,430	19,761	20,097	20,439
% of Normal Year	92%	92%	92%	92%	92%
Demand (AF)					
Total Dry Demand	**17,218**	**17,876**	**18,180**	**18,489**	**18,804**
Normal Year Demand	18,714	19,430	19,761	20,097	20,439
% of Normal Year	92%	92%	92%	92%	92%
Supply/Demand Comparison					
Supply/Demand Difference	**0**	**0**	**0**	**0**	**0**

Source: (2020 - 2040) City of Downey 2015 UWMP, Tables 4-1, 4-2, 4-3, 6-8, 6-9, 7-1 and 7-3.

Table 9. Multiple Dry Year Supply and Demand Comparison (AFY)

Water Sources	2020	2025	2030	2035	2040
First year					
Supply totals	17,218	17,876	18,180	18,489	18,804
Demand totals	17,218	17,876	18,180	18,489	18,804
Difference	**0**	**0**	**0**	**0**	**0**
Second year					
Supply totals	17,592	18,264	18,575	18,891	19,213
Demand totals	17,592	18,264	18,575	18,891	19,213
Difference	**0**	**0**	**0**	**0**	**0**
Third year					
Supply totals	17,592	18,264	18,575	18,891	19,213
Demand totals	17,592	18,264	18,575	18,891	19,213
Difference	**0**	**0**	**0**	**0**	**0**

Source: (2020 - 2040) City of Downey 2015 UWMP, Tables 4-1, 4-2, 4-3, 6-8, 6-9, 7-1 and 7-4.



SOURCE: ESRI 2017; Los Angeles County Department of Public Works 2017

Rancho Los Amigos South Campus Project EIR

ESA

June 2018

TODD GROUNDWATER

Figure 1
Project Location

Jessie Fan

From: Waleed Jouzy - Consultant <WJOUZY@dpw.lacounty.gov>
Sent: Monday, June 25, 2018 7:01 AM
To: Addie Farrell; Jessie Fan
Cc: Matthew Feldhaus - Consultant; Soheila Kalhor; Felicia Yang
Subject: FW: Rancho Los Amigos - Updated Water Supply Asssesment

Follow Up Flag: Follow up
Flag Status: Flagged

Addie

The City has approved the latest version of the WSA for the Rancho South EIR. See below from Dan Mueller. Thanks.

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Waleed Jouzy, CCM
Project Manager III
Los Angeles County Public Works
Office: (626) 300-3289
Mobile: (626) 677-0645

From: Daniel Mueller [mailto:DMueller@downeyca.org]
Sent: Thursday, June 21, 2018 7:04 PM
To: Waleed Jouzy - Consultant <WJOUZY@dpw.lacounty.gov>
Cc: Lorena Powell <lpowell@downeyca.org>
Subject: RE: Rancho Los Amigos - Updated Water Supply Asssesment

Hi Waleed,

This latest version looks fine.

Thanks - Dan

From: Waleed Jouzy - Consultant [mailto:WJOUZY@dpw.lacounty.gov]
Sent: Monday, June 18, 2018 8:59 AM
To: Daniel Mueller
Cc: Lorena Powell; Jessie Fan; Addie Farrell; Matthew Feldhaus - Consultant; Felicia Yang; Soheila Kalhor
Subject: RE: Rancho Los Amigos - Updated Water Supply Asssesment

Dan

Please find attached the revised WSA for the Rancho Los Amigos South Campus project addressing your comments for your final review and approval.

To keep us on schedule, could we obtain the City of Downey's approval of this document by Thursday, 6/21/18.

Thanks.

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Waleed Jouzy, CCM

Project Manager III

Los Angeles County Public Works

Office: (626) 300-3289
Mobile: (626) 677-0645

APPENDIX K
Alternatives Documentation

ESA

K-1 Character-Defining Features Memorandum

(CONFIDENTIAL - On file with the County)

K-2 Noise Alternatives Calculation

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Campus Demolition				**R1**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
H: Demolition					**84**	***80***		
Concrete Saw	1	90	20%	100	84	77	80	0
Excavator	3	85	40%	150	80	76	79	0
Other Equipment	1	85	50%	200	73	70	73	0
Rubber Tired Dozer	2	82	40%	250	71	67	70	0
I: Site Preparation					**88**	***85***		
Rubber Tired Dozer	8	82	40%	75	88	84	87	0
Tractors/Loaders/Backhoes	10	80	40%	125	82	78	81	0
J: Grading/Excavation					**81**	***81***		
Graders	1	85	40%	75	81	77	80	0
Excavator	2	85	40%	125	80	76	79	0
Scrapers	2	85	40%	175	77	73	76	0
Rubber Tired Dozer	1	82	40%	225	69	65	68	0
Tractors/Loaders/Backhoes	2	80	40%	275	68	64	67	0
K: Landscaping					**81**	***81***		
Other Equipment	1	85	50%	75	81	78	81	0
Forklift	2	85	50%	125	80	77	80	0
Tractors/Loaders/Backhoes	2	80	40%	175	72	68	71	0
Skid Steer Loaders	2	80	40%	225	70	66	69	0
L: Soil Remediation					**62**	***62***		
Graders	1	85	40%	1000	59	55	58	0
Excavator	2	85	40%	1050	62	58	61	0
Scrapers	2	85	40%	1100	61	57	60	0
Rubber Tired Dozer	1	82	40%	1150	55	51	54	0
Tractors/Loaders/Backhoes	2	80	40%	1200	55	51	54	0

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

Calculation

ISD, Probation Headquarters, County Office				**R1**				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
A: Demolition					**84**	***80***		
Concrete Saw	1	90	20%	100	84	77	80	0
Other Equipment	1	85	50%	150	75	72	75	0
Excavator	3	85	40%	200	78	74	77	0
Rubber Tired Dozer	2	82	40%	250	71	67	70	0
B: Site Preparation (Vegetation Removal)					**85**	***82***		
Rubber Tired Dozer	8	82	40%	100	85	81	84	0
Tractors/Loaders/Backhoes	10	80	40%	150	80	76	79	0
C: Grading/Excavation					**79**	***79***		
Graders	1	85	40%	100	79	75	78	0
Scrapers	2	85	40%	150	78	74	77	0
Excavator	2	85	40%	200	76	72	75	0
Rubber Tired Dozer	1	82	40%	250	68	64	67	0
Tractors/Loaders/Backhoes	2	80	40%	300	67	63	66	0
D: Building Construction					**83**	***82***		
Cranes	2	85	16%	100	82	74	77	0
Forklifts	6	85	50%	150	83	80	83	0
Generator Sets	2	82	50%	200	73	70	73	0
Tractors/Loaders/Backhoes	6	80	40%	250	74	70	73	0
Welders	2	73	40%	300	60	56	59	0
E: Architectural Coating					**80**	***76***		
Air Compressor	4	80	40%	100	80	76	79	0
F: Off-Site Utilities and Street Improvements					**84**	***80***		
Concrete Saw	1	90	20%	100	84	77	80	0
Excavator	3	85	40%	150	80	76	79	0
Rubber Tired Dozer	2	82	40%	200	73	69	72	0
G: Paving					**82**	***81***		
Paving Equipment	2	85	50%	100	82	79	82	0
Roller	2	85	20%	150	78	71	74	0
Paver	2	85	50%	200	76	73	76	0

Source for Ref. Noise Levels: FHWA RCNM, 2005

Project: Rancho Los Amigos South Campus

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8
	0
	0
Leq to L10 factor	3

Calculation

	R1
Overlapping Phases	**Leq**
D: Building Construction	82
F: Off-Site Utilities and Street Improvements	80
Maximum Overlapping Noise Level	***84***
D: Building Construction	82
G: Paving	81
Maximum Overlapping Noise Level	***84***
A: Demolition	80
I: Site Preparation	85
Maximum Overlapping Noise Level	***86***
A: Demolition	80
J: Grading/Excavation	81
Maximum Overlapping Noise Level	***83***
B: Site Preparation (Vegetation Removal)	82
J: Grading/Excavation	81
Maximum Overlapping Noise Level	***85***
A: Demolition	80
K: Landscaping	81
Maximum Overlapping Noise Level	***84***
B: Site Preparation (Vegetation Removal)	82
K: Landscaping	81
Maximum Overlapping Noise Level	***85***
A: Demolition	80
L: Soil Remediation	62
Maximum Overlapping Noise Level	***80***

Maximum	86
Mitigated	58
ambient	62
Ambient + Project	63.4
Increase over Ambient	1.4

K-3 Traffic Alternatives Memorandum

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MEMORANDUM

To:	Charles Smith ESA	Date:	July 11, 2019
From:	David S. Shender, P.E. Jason A. Shender Linscott, Law & Greenspan, Engineers	LLG Ref:	5-17-0354-1
Subject:	**Traffic Assessment of Project Alternative Ranch Los Amigos South Campus Project**		

This memorandum has been prepared by Linscott, Law & Greenspan, Engineers (LLG) to provide an assessment of the potential traffic impacts related to the Alternative to be evaluated in Draft Environmental Impact Report to be prepared for the Rancho Los Amigos South Campus project (the "Project"). The potential traffic impacts of the Project were evaluated in a traffic study[1] prepared by LLG.

Traffic Analysis of the Project

The Project proposes to construct three new County administrative buildings on the Project site. The ISD Headquarters (up to 315,000 square feet), Probation Department Headquarters (up to 168,000 square feet), and the County Office Building (up to 167,000 square feet) and associated parking and infrastructure would be constructed within the 35-acre Development Area, in the northern part of the Project site. In total, up to 650,000 square feet of net new building floor area is proposed to be developed, accommodating up to 3,000 County employees.

A secured Level 1 (ground floor) public entrance to the Project site would be provided from Golondrinas Street, which is currently gated and does not allow for regular vehicle access. A dedicated entrance from the secured parking area to the ISD and Probation Department Headquarters buildings would also be provided. Off-campus visitors would arrive on campus through a new parking structure. The parking structure would contain a minimum of two vehicular entry/exit locations from the extended Rives Avenue and/or Golondrinas Street, as well as two pedestrian access points. Loading docks for the ISD and Probation Department Headquarters buildings are proposed to be located along Rives Avenue. The loading docks are proposed to be integrated into the building façade and be fully screened.

The County Office Building and associated parking structure would be accessed from vehicular entry/exit points from Flores Avenue and Laurel Street, and will be fully contained within the security wall with controlled access through ingress and egress gates. The primary access point for the County Office Building would be set back from the street and may include a covered entry. The vehicular access points for the parking structures serving the ISD and Probation Department Headquarters buildings and County Office Building have not been finalized.

[1] *Traffic Impact Study – Rancho Los Amigos South Campus*, LLG, July 8, 2019

Trip Generation – Operations

Based on data provided in the traffic study, the Project is forecast to generate 7,443 net new vehicle trips (3,722 in, 3,721 out) during a typical weekday. During the weekday morning (AM) commuter peak hour, the Project is forecast to generate 1,038 net new vehicle trips (913 in, 125 out). During the weekday afternoon (PM) commuter peak hour, the Project is forecast to generate 884 net new vehicle trips (150 in, 734 out).

Traffic Analysis – Operations

The traffic analysis for the Project as provided in the traffic study evaluated the potential traffic impacts of the Project at 27 nearby study intersections. The traffic study concluded that the Project would result in potentially significant traffic impacts at five intersections: Wright Road/Imperial Highway; Garfield Avenue/Monroe Avenue; Industrial Avenue/Gardendale Street; Erickson Avenue/Gardendale Street; Arizona Avenue/Gardendale Street; and Paramount Boulevard/Gardendale Street. A mitigation measure is recommended to eliminate the potential traffic impacts of the Project at the two of the five significantly impacted intersections: Wright Road/Imperial Highway and Erickson Avenue/Gardendale Street. There are no feasible or reasonable mitigation measures for the other intersections.

Traffic Analysis of Alternative Project

The Alternative Project proposes to construct three new County administrative buildings on the Project site. The ISD Headquarters (up to 315,000 square feet), Probation Department Headquarters (up to 168,000 square feet), and the County Office Building (up to 167,000 square feet) and associated parking and infrastructure would be constructed within the 35-acre Development Area, in the northern part of the Project site. In total, up to 650,000 square feet of net new building floor area is proposed to be developed, accommodating up to 1,651 County employees. There are no differences in the proposed site access for the Project Alternative.

Trip Generation – Operations

The trip generation forecast for the Alternative Project is provided in ***Table 1*** attached. As shown in *Table 1*, the Alternative Project is forecast to generate 4,616 net new vehicle trips during a typical weekday (2,308 in, 2,308 out). During the weekday morning (AM) commuter peak hour, Alternative 1 is forecast to generate 648 net new vehicle trips (570 in, 78 out). During the weekday afternoon (PM) commuter peak hour, the Alternative Project is forecast to generate 572 net new vehicle trips (97 in, 475 out). When compared to the Project, the Project Alternative is forecast to generate 2,827 fewer daily trips, 390 fewer AM peak hour trips and 312 fewer PM peak hour trips.

LINSCOTT LAW & GREENSPAN engineers

Traffic Analysis – Operations

A traffic analysis for the Project Alternative was prepared similar to the analysis of the Project as provided in the traffic study and supplemental traffic analysis. The analysis evaluated the potential traffic impacts of the Project Alternative at 27 nearby study intersections. ***Table 2***, ***Table 3***, ***Table 4, Table 5***, and ***Table 6*** provide summaries of the traffic analysis prepared for the City of Downey, City of South Gate, City of Paramount, County of Los Angeles, and City of Lynwood study intersections, respectively. The traffic analysis concluded that the Project Alternative would result in potentially significant traffic impacts at four intersections: Wright Road/Imperial Highway; Garfield Avenue/Monroe Avenue; Erickson Avenue/Gardendale Street; Arizona Avenue/Gardendale Street; and Paramount Boulevard/Gardendale Street. The mitigation measures recommended in the traffic study to eliminate the potential traffic impacts of the Project at the Wright Road/Imperial Highway and Erickson Avenue/Gardendale Street intersections would also eliminate the potential traffic impacts associated with the Project Alternative at these affected intersections. ***Table 7*** provides a summary of the significant impact comparison between the Project and the Project Alternative.

cc: File

Table 1
PROJECT TRIP GENERATION [1]
ALTERNATIVE PROJECT (1,651 EMPLOYEES)

09-Jul-19

LAND USE	SIZE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2] IN	AM PEAK HOUR VOLUMES [2] OUT	AM PEAK HOUR VOLUMES [2] TOTAL	PM PEAK HOUR VOLUMES [2] IN	PM PEAK HOUR VOLUMES [2] OUT	PM PEAK HOUR VOLUMES [2] TOTAL
Proposed Project								
Rancho Los Amigos South Campus [3]	1,651 Employees	4,616	570	78	648	97	475	572
NET PROJECT TRIPS		**4,616**	**570**	**78**	**648**	**97**	**475**	**572**

[1] Source: ITE "Trip Generation Manual", 10th Edition, 2017.
[2] Trips are one-way traffic movements, entering or leaving.
[3] ITE Land Use Code 710 (General Office Building) trip generation equation rates rates.
- Daily Trip Rate: Ln(T) = 0.80*Ln(X) + 2.51 ; 50% inbound/50% outbound
- AM Peak Hour Trip Rate: Ln(T) = 0.79*Ln(X) + 0.62 ; 88% inbound/12% outbound
- PM Peak Hour Trip Rate: Ln(T) = 0.73*Ln(X) + 0.94 ; 17% inbound/83% outbound

Table 2
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF DOWNEY INTERSECTIONS

09-Jul-19

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING DELAY OR V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
15	Industrial Avenue / Gardendale Street [b]	AM	37.4	E	46.5	E	----	----	42.3	E	> 50.0	F	----	----	> 50.0	F	----	----
		PM	20.4	C	24.0	C	----	----	22.1	C	26.5	D	----	----	26.5	D	----	----
		AM	0.684	----	0.701	----	0.017	NO	0.709	----	0.725	----	0.016	NO	0.725	----	0.016	N/A
		PM	0.526	----	0.544	----	0.018	NO	0.550	----	0.568	----	0.018	NO	0.568	----	0.018	N/A
16	Erickson Avenue / Gardendale Street [b]	AM	30.9	D	49.9	E	----	----	33.5	C	> 50.0	F	----	----	----	----	----	----
		PM	20.2	C	30.9	D	----	----	17.4	C	39.0	E	----	----	----	----	----	----
		AM	0.663	----	0.769	----	0.106	NO	0.687	----	0.794	----	0.107	YES	0.794	C	0.107	YES
		PM	0.474	----	0.561	----	0.087	NO	0.494	----	0.581	----	0.087	NO	0.581	A	0.087	N/A
17	Arizona Avenue / Gardendale Street [b]	AM	24.2	C	34.7	E	----	----	26.7	D	39.3	E	----	----	39.3	E	----	----
		PM	13.9	B	16.4	C	----	----	14.5	B	17.1	C	----	----	17.1	C	----	----
		AM	0.679	----	0.783	----	0.104	NO	0.704	----	0.808	----	0.104	NO	0.808	----	0.104	N/A
		PM	0.509	----	0.596	----	0.087	NO	0.530	----	0.617	----	0.087	NO	0.617	----	0.087	N/A

[a] According to the City of Downey, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final V/C	LOS	Project Related Increase in V/C
> 1.00	F	equal to or greater than 0.020

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

Table 3
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF SOUTH GATE INTERSECTIONS

09-Jul-19

			[1]		[2]				[3]		[4]				[5]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING DELAY OR V/C	LOS	YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
3	Wright Road /	AM	1.048	F	1.075	F	0.027	YES	1.075	F	1.107	F	0.032	YES	0.997	E	-0.078	YES
	Imperial Highway	PM	0.904	E	0.909	E	0.005	NO	0.936	E	0.940	E	0.004	NO	0.921	E	-0.015	N/A
7	Garfield Avenue /	AM	44.6	E	>50.0	F	----	----	46.9	E	> 50.0	F	----	----	> 50.0	F	----	----
	Monroe Avenue [b]	PM	32.6	D	38.6	E	----	----	34.8	E	41.6	E	----	----	41.6	E	----	----
		AM	0.443	----	0.473	----	0.030	YES	0.445	----	0.475	----	0.030	YES	0.475	----	0.030	NO
		PM	0.395	----	0.421	----	0.026	YES	0.398	----	0.423	----	0.025	YES	0.423	----	0.025	NO
15	Industrial Avenue /	AM	37.4	E	46.5	E	----	----	42.3	E	> 50.0	F	----	----	> 50.0	F	----	----
	Gardendale Street [b]	PM	20.4	C	24.0	C	----	----	22.1	C	26.5	D	----	----	26.5	D	----	----
		AM	0.684	----	0.701	----	0.017	NO	0.709	----	0.725	----	0.016	NO	0.725	----	0.016	N/A
		PM	0.526	----	0.544	----	0.018	NO	0.550	----	0.568	----	0.018	NO	0.568	----	0.018	N/A
16	Erickson Avenue /	AM	30.9	D	49.9	E	----	----	33.5	C	> 50.0	F	----	----	----	----	----	----
	Gardendale Street [b]	PM	20.2	C	30.9	D	----	----	17.4	C	39.0	E	----	----	----	----	----	----
		AM	0.663	----	0.769	----	0.106	YES	0.687	----	0.794	----	0.107	YES	0.794	C	0.107	YES
		PM	0.474	----	0.561	----	0.087	NO	0.494	----	0.581	----	0.087	YES	0.581	A	0.087	YES
17	Arizona Avenue /	AM	24.2	C	34.7	E	----	----	26.7	D	39.3	E	----	----	39.3	E	----	----
	Gardendale Street [b]	PM	13.9	B	16.4	C	----	----	14.5	B	17.1	C	----	----	17.1	C	----	----
		AM	0.679	----	0.783	----	0.104	YES	0.704	----	0.808	----	0.104	YES	0.808	----	0.104	NO
		PM	0.509	----	0.596	----	0.087	NO	0.530	----	0.617	----	0.087	NO	0.617	----	0.087	N/A

[a] According to the City of South Gate, a transportation impact is considered significant if the final volume-to-capacity ratio (v/c) equals or exceeds the thresholds shown below:

Level of Service	Final V/C	Project-Related Increase in V/C
E,F	> 0.900	equal to or greater than 0.02

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

Table 4
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF PARAMOUNT INTERSECTIONS

09-Jul-19

			[1]		[2]				[3]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING V/C	LOS	YEAR 2017 W/ PROPOSED PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ RELATED PROJECTS V/C	LOS	CHANGE V/C [(3)-(1)]	SIGNIF. IMPACT [a]
20	Paramount Boulevard / Gardendale Street	AM	0.733	C	0.808	D	0.075	YES	0.831	D	0.098	YES
		PM	0.736	C	0.778	C	0.042	YES	0.780	C	0.044	YES

[a] According to the City of Paramount, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Pre-Project V/C	LOS	Project Related Increase in V/C
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E,F	equal to or greater than 0.010

Table 5
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
COUNTY OF LOS ANGELES INTERSECTIONS

09-Jul-19

			[1]		[2]				[3]				[4]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING V/C	LOS	YEAR 2017 W/ PROPOSED PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ RELATED PROJECTS V/C	LOS	CHANGE V/C [(3)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(4)-(1)]	MITI-GATED
16	Erickson Avenue /	AM	30.9	D	49.9	E	----	----	> 50.0	F	----	----	----	----	----	----
	Gardendale Street [b]	PM	20.2	C	30.9	D	----	----	39.0	E	----	----	----	----	----	----
		AM	0.663	----	0.769	----	0.106	YES	0.794	----	0.131	YES	0.794	C	0.131	YES
		PM	0.474	----	0.561	----	0.087	YES	0.581	----	0.107	YES	0.581	A	0.107	YES

[a] According to Los Angeles County Department of Public Works "Traffic Impact Analysis Report Guidelines, " January 1997, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Pre-Project V/C	LOS	Project Related Increase in V/C
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E,F	equal to or greater than 0.010

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

Table 6
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF LYNWOOD INTERSECTIONS

03-Apr-18

			[1]		[2]				[3]		[4]				[5]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING V/C	LOS	YEAR 2017 EXISTING W/ PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 FUTURE PRE-PROJECT V/C	LOS	YEAR 2021 FUTURE W/ PROJECT V/C	LOS	CHANGE V/C [(4)-(3)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
1	Atlantic Avenue /	AM	0.740	C	0.785	C	0.045	YES	0.765	C	0.810	D	0.045	YES	0.690	B	-0.075	YES
	Imperial Highway	PM	0.674	B	0.703	C	0.029	NO	0.704	C	0.725	C	0.021	NO	0.688	B	-0.016	N/A
3	Wright Road /	AM	0.972	E	1.002	F	0.030	YES	1.001	F	1.032	F	0.031	YES	0.914	E	-0.087	YES
	Imperial Highway	PM	0.817	D	0.823	D	0.006	NO	0.853	D	0.859	D	0.006	NO	0.802	D	-0.051	N/A

[a] According to the City of Lynwood, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final v/c	LOS	Project Related Increase in v/c
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E, F	equal to or greater than 0.010

Table 7
ORIGINAL VS. ALTERNATIVE PROJECT (1,651 EMPLOYEES)
SIGNIFICANT IMPACT COMPARISON

09-Jul-19

NO.	INTERSECTION	JURISDISCTION	PEAK HOUR	3,000 Employees		1,651 Employees	
				SIGNIF. IMPACT	MITI-GATED	SIGNIF. IMPACT	MITI-GATED
3	Wright Road / Imperial Highway	City of South Gate	AM	YES	YES	YES	YES
			PM	NO	N/A	NO	N/A
		City of Lynwood	AM	YES	N/A	YES	YES
			PM	NO	N/A	NO	N/A
7	Garfield Avenue / Monroe Avenue	City of South Gate	AM	YES	NO	YES	NO
			PM	YES	NO	YES	NO
15	Industrial Avenue / Gardendale Street	City of Downey	AM	YES	NO	NO	N/A
			PM	NO	N/A	NO	N/A
		City of South Gate	AM	YES	NO	NO	N/A
			PM	NO	N/A	NO	N/A
16	Erickson Avenue / Gardendale Street	City of Downey	AM	YES	YES	YES	YES
			PM	YES	YES	NO	N/A
		City of South Gate	AM	YES	YES	YES	YES
			PM	YES	YES	YES	YES
		County of Los Angeles	AM	YES	YES	YES	YES
			PM	YES	YES	YES	YES

Table 7 (Continued)
ORIGINAL VS. ALTERNATIVE PROJECT (1,651 EMPLOYEES)
SIGNIFICANT IMPACT COMPARISON

NO.	INTERSECTION	JURISDISCTION	PEAK HOUR	3,000 Employees		1,651 Employees	
				SIGNIF. IMPACT	MITI-GATED	SIGNIF. IMPACT	MITI-GATED
17	Arizona Avenue / Gardendale Street	City of Downey	AM	YES	NO	NO	N/A
			PM	NO	N/A	NO	N/A
		City of South Gate	AM	YES	NO	YES	NO
			PM	NO	N/A	NO	N/A
20	Paramount Boulevard / Gardendale Street	City of Paramount	AM	YES	NO	YES	NO
			PM	YES	NO	YES	NO

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Pasadena
Irvine
San Diego
Woodland Hills

MEMORANDUM

To:	Charles Smith ESA	Date:	July 11, 2019
From:	David S. Shender, P.E. Jason A. Shender Linscott, Law & Greenspan, Engineers	LLG Ref:	5-17-0354-1
Subject:	**Traffic Assessment of Project Alternative Ranch Los Amigos South Campus Project**		

This memorandum has been prepared by Linscott, Law & Greenspan, Engineers (LLG) to provide an assessment of the potential traffic impacts related to the Alternative to be evaluated in Draft Environmental Impact Report to be prepared for the Rancho Los Amigos South Campus project (the "Project"). The potential traffic impacts of the Project were evaluated in a traffic study[1] prepared by LLG.

Traffic Analysis of the Project

The Project proposes to construct three new County administrative buildings on the Project site. The ISD Headquarters (up to 315,000 square feet), Probation Department Headquarters (up to 168,000 square feet), and the County Office Building (up to 167,000 square feet) and associated parking and infrastructure would be constructed within the 35-acre Development Area, in the northern part of the Project site. In total, up to 650,000 square feet of net new building floor area is proposed to be developed, accommodating up to 3,000 County employees.

A secured Level 1 (ground floor) public entrance to the Project site would be provided from Golondrinas Street, which is currently gated and does not allow for regular vehicle access. A dedicated entrance from the secured parking area to the ISD and Probation Department Headquarters buildings would also be provided. Off-campus visitors would arrive on campus through a new parking structure. The parking structure would contain a minimum of two vehicular entry/exit locations from the extended Rives Avenue and/or Golondrinas Street, as well as two pedestrian access points. Loading docks for the ISD and Probation Department Headquarters buildings are proposed to be located along Rives Avenue. The loading docks are proposed to be integrated into the building façade and be fully screened.

The County Office Building and associated parking structure would be accessed from vehicular entry/exit points from Flores Avenue and Laurel Street, and will be fully contained within the security wall with controlled access through ingress and egress gates. The primary access point for the County Office Building would be set back from the street and may include a covered entry. The vehicular access points for the parking structures serving the ISD and Probation Department Headquarters buildings and County Office Building have not been finalized.

[1] *Traffic Impact Study – Rancho Los Amigos South Campus*, LLG, July 8, 2019

Trip Generation – Operations

Based on data provided in the traffic study, the Project is forecast to generate 7,443 net new vehicle trips (3,722 in, 3,721 out) during a typical weekday. During the weekday morning (AM) commuter peak hour, the Project is forecast to generate 1,038 net new vehicle trips (913 in, 125 out). During the weekday afternoon (PM) commuter peak hour, the Project is forecast to generate 884 net new vehicle trips (150 in, 734 out).

Traffic Analysis – Operations

The traffic analysis for the Project as provided in the traffic study evaluated the potential traffic impacts of the Project at 27 nearby study intersections. The traffic study concluded that the Project would result in potentially significant traffic impacts at five intersections: Wright Road/Imperial Highway; Garfield Avenue/Monroe Avenue; Industrial Avenue/Gardendale Street; Erickson Avenue/Gardendale Street; Arizona Avenue/Gardendale Street; and Paramount Boulevard/Gardendale Street. A mitigation measure is recommended to eliminate the potential traffic impacts of the Project at the two of the five significantly impacted intersections: Wright Road/Imperial Highway and Erickson Avenue/Gardendale Street. There are no feasible or reasonable mitigation measures for the other intersections.

Traffic Analysis of Alternative Project

The Alternative Project proposes to construct three new County administrative buildings on the Project site. The ISD Headquarters (up to 315,000 square feet), Probation Department Headquarters (up to 168,000 square feet), and the County Office Building (up to 167,000 square feet) and associated parking and infrastructure would be constructed within the 35-acre Development Area, in the northern part of the Project site. In total, up to 650,000 square feet of net new building floor area is proposed to be developed, accommodating up to 1,651 County employees. There are no differences in the proposed site access for the Project Alternative.

Trip Generation – Operations

The trip generation forecast for the Alternative Project is provided in ***Table 1*** attached. As shown in *Table 1*, the Alternative Project is forecast to generate 4,616 net new vehicle trips during a typical weekday (2,308 in, 2,308 out). During the weekday morning (AM) commuter peak hour, Alternative 1 is forecast to generate 648 net new vehicle trips (570 in, 78 out). During the weekday afternoon (PM) commuter peak hour, the Alternative Project is forecast to generate 572 net new vehicle trips (97 in, 475 out). When compared to the Project, the Project Alternative is forecast to generate 2,827 fewer daily trips, 390 fewer AM peak hour trips and 312 fewer PM peak hour trips.

LINSCOTT LAW & GREENSPAN engineers

Traffic Analysis – Operations

A traffic analysis for the Project Alternative was prepared similar to the analysis of the Project as provided in the traffic study and supplemental traffic analysis. The analysis evaluated the potential traffic impacts of the Project Alternative at 27 nearby study intersections. ***Table 2***, ***Table 3***, ***Table 4, Table 5***, and ***Table 6*** provide summaries of the traffic analysis prepared for the City of Downey, City of South Gate, City of Paramount, County of Los Angeles, and City of Lynwood study intersections, respectively. The traffic analysis concluded that the Project Alternative would result in potentially significant traffic impacts at four intersections: Wright Road/Imperial Highway; Garfield Avenue/Monroe Avenue; Erickson Avenue/Gardendale Street; Arizona Avenue/Gardendale Street; and Paramount Boulevard/Gardendale Street. The mitigation measures recommended in the traffic study to eliminate the potential traffic impacts of the Project at the Wright Road/Imperial Highway and Erickson Avenue/Gardendale Street intersections would also eliminate the potential traffic impacts associated with the Project Alternative at these affected intersections. ***Table 7*** provides a summary of the significant impact comparison between the Project and the Project Alternative.

cc: File

Table 1
PROJECT TRIP GENERATION [1]
ALTERNATIVE PROJECT (1,651 EMPLOYEES)

09-Jul-19

LAND USE	SIZE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2] IN	AM PEAK HOUR VOLUMES [2] OUT	AM PEAK HOUR VOLUMES [2] TOTAL	PM PEAK HOUR VOLUMES [2] IN	PM PEAK HOUR VOLUMES [2] OUT	PM PEAK HOUR VOLUMES [2] TOTAL
Proposed Project								
Rancho Los Amigos South Campus [3]	1,651 Employees	4,616	570	78	648	97	475	572
NET PROJECT TRIPS		**4,616**	**570**	**78**	**648**	**97**	**475**	**572**

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- Daily Trip Rate: Ln(T) = 0.80*Ln(X) + 2.51 ; 50% inbound/50% outbound
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- PM Peak Hour Trip Rate: Ln(T) = 0.73*Ln(X) + 0.94 ; 17% inbound/83% outbound

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AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF DOWNEY INTERSECTIONS

09-Jul-19

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2017 EXISTING DELAY OR V/C	LOS	[2] YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	[3] YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	[4] YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	[5] YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
15	Industrial Avenue / Gardendale Street [b]	AM	37.4	E	46.5	E	----	----	42.3	E	> 50.0	F	----	----	> 50.0	F	----	----
		PM	20.4	C	24.0	C	----	----	22.1	C	26.5	D	----	----	26.5	D	----	----
		AM	0.684	----	0.701	----	0.017	NO	0.709	----	0.725	----	0.016	NO	0.725	----	0.016	N/A
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		PM	20.2	C	30.9	D	----	----	17.4	C	39.0	E	----	----	----	----	----	----
		AM	0.663	----	0.769	----	0.106	NO	0.687	----	0.794	----	0.107	YES	0.794	C	0.107	YES
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		PM	13.9	B	16.4	C	----	----	14.5	B	17.1	C	----	----	17.1	C	----	----
		AM	0.679	----	0.783	----	0.104	NO	0.704	----	0.808	----	0.104	NO	0.808	----	0.104	N/A
		PM	0.509	----	0.596	----	0.087	NO	0.530	----	0.617	----	0.087	NO	0.617	----	0.087	N/A

[a] According to the City of Downey, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final V/C	LOS	Project Related Increase in V/C
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Table 3
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
AM AND PM PEAK HOURS
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF SOUTH GATE INTERSECTIONS

09-Jul-19

			[1]		[2]				[3]		[4]				[5]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING DELAY OR V/C	LOS	YEAR 2017 EXISTING W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 FUTURE PRE-PROJECT DELAY OR V/C	LOS	YEAR 2021 FUTURE W/ PROJECT DELAY OR V/C	LOS	CHANGE IN DELAY OR V/C [(4)-(3)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
3	Wright Road /	AM	1.048	F	1.075	F	0.027	YES	1.075	F	1.107	F	0.032	YES	0.997	E	-0.078	YES
	Imperial Highway	PM	0.904	E	0.909	E	0.005	NO	0.936	E	0.940	E	0.004	NO	0.921	E	-0.015	N/A
7	Garfield Avenue /	AM	44.6	E	>50.0	F	----	----	46.9	E	> 50.0	F	----	----	> 50.0	F	----	----
	Monroe Avenue [b]	PM	32.6	D	38.6	E	----	----	34.8	E	41.6	E	----	----	41.6	E	----	----
		AM	0.443	----	0.473	----	0.030	YES	0.445	----	0.475	----	0.030	YES	0.475	----	0.030	NO
		PM	0.395	----	0.421	----	0.026	YES	0.398	----	0.423	----	0.025	YES	0.423	----	0.025	NO
15	Industrial Avenue /	AM	37.4	E	46.5	E	----	----	42.3	E	> 50.0	F	----	----	> 50.0	F	----	----
	Gardendale Street [b]	PM	20.4	C	24.0	C	----	----	22.1	C	26.5	D	----	----	26.5	D	----	----
		AM	0.684	----	0.701	----	0.017	NO	0.709	----	0.725	----	0.016	NO	0.725	----	0.016	N/A
		PM	0.526	----	0.544	----	0.018	NO	0.550	----	0.568	----	0.018	NO	0.568	----	0.018	N/A
16	Erickson Avenue /	AM	30.9	D	49.9	E	----	----	33.5	C	> 50.0	F	----	----	----	----	----	----
	Gardendale Street [b]	PM	20.2	C	30.9	D	----	----	17.4	C	39.0	E	----	----	----	----	----	----
		AM	0.663	----	0.769	----	0.106	YES	0.687	----	0.794	----	0.107	YES	0.794	C	0.107	YES
		PM	0.474	----	0.561	----	0.087	NO	0.494	----	0.581	----	0.087	YES	0.581	A	0.087	YES
17	Arizona Avenue /	AM	24.2	C	34.7	E	----	----	26.7	D	39.3	E	----	----	39.3	E	----	----
	Gardendale Street [b]	PM	13.9	B	16.4	C	----	----	14.5	B	17.1	C	----	----	17.1	C	----	----
		AM	0.679	----	0.783	----	0.104	YES	0.704	----	0.808	----	0.104	YES	0.808	----	0.104	NO
		PM	0.509	----	0.596	----	0.087	NO	0.530	----	0.617	----	0.087	NO	0.617	----	0.087	N/A

[a] According to the City of South Gate, a transportation impact is considered significant if the final volume-to-capacity ratio (v/c) equals or exceeds the thresholds shown below:

Level of Service	Final V/C	Project-Related Increase in V/C
E,F	> 0.900	equal to or greater than 0.02

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

Table 4
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF PARAMOUNT INTERSECTIONS

09-Jul-19

			[1]		[2]				[3]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING V/C	LOS	YEAR 2017 W/ PROPOSED PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ RELATED PROJECTS V/C	LOS	CHANGE V/C [(3)-(1)]	SIGNIF. IMPACT [a]
20	Paramount Boulevard / Gardendale Street	AM	0.733	C	0.808	D	0.075	YES	0.831	D	0.098	YES
		PM	0.736	C	0.778	C	0.042	YES	0.780	C	0.044	YES

[a] According to the City of Paramount, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Pre-Project V/C	LOS	Project Related Increase in V/C
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E,F	equal to or greater than 0.010

Table 5
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
COUNTY OF LOS ANGELES INTERSECTIONS

09-Jul-19

			[1]		[2]				[3]				[4]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING V/C	LOS	YEAR 2017 W/ PROPOSED PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ RELATED PROJECTS V/C	LOS	CHANGE V/C [(3)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(4)-(1)]	MITI-GATED
16	Erickson Avenue /	AM	30.9	D	49.9	E	----	----	> 50.0	F	----	----	----	----	----	----
	Gardendale Street [b]	PM	20.2	C	30.9	D	----	----	39.0	E	----	----	----	----	----	----
		AM	0.663	----	0.769	----	0.106	YES	0.794	----	0.131	YES	0.794	C	0.131	YES
		PM	0.474	----	0.561	----	0.087	YES	0.581	----	0.107	YES	0.581	A	0.107	YES

[a] According to Los Angeles County Department of Public Works "Traffic Impact Analysis Report Guidelines, " January 1997, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Pre-Project V/C	LOS	Project Related Increase in V/C
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E,F	equal to or greater than 0.010

[b] Two-Way Stop-Controlled Intersection. Reported values represent the delays associated with the most constrained approach of the intersection.

Table 6
SUMMARY OF VOLUME TO CAPACITY RATIOS
AND LEVELS OF SERVICE
ALTERNATIVE PROJECT (1,651 EMPLOYEES)
CITY OF LYNWOOD INTERSECTIONS

03-Apr-18

			[1]		[2]				[3]		[4]				[5]			
NO.	INTERSECTION	PEAK HOUR	YEAR 2017 EXISTING V/C	LOS	YEAR 2017 EXISTING W/ PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	SIGNIF. IMPACT [a]	YEAR 2021 FUTURE PRE-PROJECT V/C	LOS	YEAR 2021 FUTURE W/ PROJECT V/C	LOS	CHANGE V/C [(4)-(3)]	SIGNIF. IMPACT [a]	YEAR 2021 W/ PROJECT MITIGATION V/C	LOS	CHANGE V/C [(5)-(3)]	MITI-GATED
1	Atlantic Avenue /	AM	0.740	C	0.785	C	0.045	YES	0.765	C	0.810	D	0.045	YES	0.690	B	-0.075	YES
	Imperial Highway	PM	0.674	B	0.703	C	0.029	NO	0.704	C	0.725	C	0.021	NO	0.688	B	-0.016	N/A
3	Wright Road /	AM	0.972	E	1.002	F	0.030	YES	1.001	F	1.032	F	0.031	YES	0.914	E	-0.087	YES
	Imperial Highway	PM	0.817	D	0.823	D	0.006	NO	0.853	D	0.859	D	0.006	NO	0.802	D	-0.051	N/A

[a] According to the City of Lynwood, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final v/c	LOS	Project Related Increase in v/c
0.701 - 0.800	C	equal to or greater than 0.040
0.801 - 0.900	D	equal to or greater than 0.020
> 0.901	E, F	equal to or greater than 0.010

Table 7
ORIGINAL VS. ALTERNATIVE PROJECT (1,651 EMPLOYEES)
SIGNIFICANT IMPACT COMPARISON

09-Jul-19

NO.	INTERSECTION	JURISDISCTION	PEAK HOUR	3,000 Employees		1,651 Employees	
				SIGNIF. IMPACT	MITI-GATED	SIGNIF. IMPACT	MITI-GATED
3	Wright Road / Imperial Highway	City of South Gate	AM	YES	YES	YES	YES
			PM	NO	N/A	NO	N/A
		City of Lynwood	AM	YES	N/A	YES	YES
			PM	NO	N/A	NO	N/A
7	Garfield Avenue / Monroe Avenue	City of South Gate	AM	YES	NO	YES	NO
			PM	YES	NO	YES	NO
15	Industrial Avenue / Gardendale Street	City of Downey	AM	YES	NO	NO	N/A
			PM	NO	N/A	NO	N/A
		City of South Gate	AM	YES	NO	NO	N/A
			PM	NO	N/A	NO	N/A
16	Erickson Avenue / Gardendale Street	City of Downey	AM	YES	YES	YES	YES
			PM	YES	YES	NO	N/A
		City of South Gate	AM	YES	YES	YES	YES
			PM	YES	YES	YES	YES
		County of Los Angeles	AM	YES	YES	YES	YES
			PM	YES	YES	YES	YES

Table 7 (Continued)
ORIGINAL VS. ALTERNATIVE PROJECT (1,651 EMPLOYEES)
SIGNIFICANT IMPACT COMPARISON

NO.	INTERSECTION	JURISDISCTION	PEAK HOUR	3,000 Employees		1,651 Employees	
				SIGNIF. IMPACT	MITI-GATED	SIGNIF. IMPACT	MITI-GATED
17	Arizona Avenue / Gardendale Street	City of Downey	AM	YES	NO	NO	N/A
			PM	NO	N/A	NO	N/A
		City of South Gate	AM	YES	NO	YES	NO
			PM	NO	N/A	NO	N/A
20	Paramount Boulevard / Gardendale Street	City of Paramount	AM	YES	NO	YES	NO
			PM	YES	NO	YES	NO